DECEMBER 15, 1958



PRODUCTS GUIDE

THE BUYERS' DIRECTORY FOR AUTOMOTIVE AND AVIATION EXECUTIVES

LISTING PARTS, COMPONENTS, PRODUCTION AND PLANT EQUIPMENT, MATERIALS AND SUPPLIES

it's mainly a matter of TIMING!

When an old machine costs you more than it earns, replacement pays for itself!

There comes a time in the life of any machine, when it will no longer produce at a profit—a time beyond which its continued use represents a financial loss to your company. This point of obsolescence may be the result of physical aging or of technological advances. In either case, the result is the same—money wasted that could be saved by the investment in a new machine.

Determining when to replace a machine is too important for guesswork or rule-of-thumb computations. Only precise methods of comparative cost analysis will give you the right answer. Our sales engineers are well experienced in making obsolescence studies and will be glad to do the same for you. Similar studies have pointed the way to many important savings.

For Example: A manufacturer of aircraft instruments had been using a 5-year-old precision lathe to perform boring, turning and facing operations on instrument cases. But when this was replaced with a new Heald Model 0 Unit-Type Bore-Matic like that shown at the right, operating costs for the same production were immediately reduced by over 78%. In addition, the climination of a separate burring operation and reduced assembly time made further important savings, as indicated by the cost analysis below.

Parts per hour	Machine F	New Machine 20
Parts per year (Reg'd. Prod.)	10,000	10,000
Direct and Indirect Labor, per year Scrap Losses, per year Annual Maintenance Cost	\$20,349 \$ 500	\$ 6,055 \$ 300 \$ 300
Annual Operating Cost	\$21,449	\$ 6,655 \$14,794
separate operation		
Total Saving Per Year		



YOU pay for obsolescence. Replacement pays for itself!

THE HEALD MACHINE COMPANY

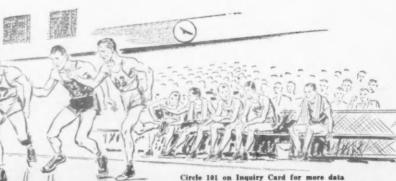
Subsidiary of The Cincinnati Milling Machine Co.

Worcester 6, Massachusetts

Chicago • Cleveland • Dayton

Dayion Indianapona

New York





for over fifty years

in 1908—the CHICAGO FIRE DEPT.
— then as now—was up-to-theminute with Waukesha Engine powered equipment.

fast · rugged · powerful

WAUKESHA transport ENGINES

Where the pay-off is on pay-load—in fast cross country service... off the highway... or extra heavy duty hauling—you'll make more miles and cut costs too, with these modern Waukesha truckers' engines. Designed to put

e a ma work o nly pre t analy er. Our nced in will be Similar

any im

out the power, Waukeshas pull-and-pay day after day without faltering or breakdown.

Send for Bulletins

WAUKESHA MOTOR COMPANY • WAUKESHA, WIS.
New York • Tulsa • Los Angeles





"I get

BaW Mechanical Tubing

tailored to the job

As a shop superintendent, I'm sold on B&W. Because
B&W Mechanical Tubing comes matched to our needs
we've increased production and cut costs."

B&W furnishes a wide selection of mechanical tubing with properties that make it suitable for subsequent fabrication into an infinite variety of hollow cylindrical parts and products. You can usually select a tube with a diameter and wall thickness so close to the dimensions of the final product that machining and finishing costs are subsequently reduced and

sometimes virtually eliminated.

B&W Mechanical Tubing not only provides the properties needed in the finished product but also makes possible easy fabrication and a more simplified and improved design. Checking with Mr. Tubes, your B&W specialist, when your product is in the design phase can save you vital production costs.

Write for Bulletin TB-347, The Babcock & Wilcox Company, Tubular Products Division, Beaver Falls, Pa.



Seamless and welded tubular products, solid extrusions, seamless welding fittings and forged steel flanges —in carbon, alloy and stainless steels and special metals.

AUTOMOTIVE INDUSTRIES

DECEMBER 15. 1958

VOL. 119, NO. 12

PRODUCTS GUIDE

See Page 97

NEWS PREVIEWS

American Motors Profit Tops \$26 Million...... 37 Ford Div. Boosts December Production By 5%.. 38 Car Makers Urged to Step Up Exhaust Studies.. 38 Allis-Chalmers to Buy S. Morgan Smith Co..... 39 Rambler Exports Increase 10.3% During '58..... 39 Earthmover Can Dig and Haul 130-Ton Loads.... 40 German-Built Truck Has Elevator Body...... 40 VW Executive Predicts 500,000 Import Sales.... 41 Lockheed Proposes New VTOL Design...... 42 McElroy "Highly Skeptical" of A-Plane Story.... 42 Goodyear Designs Unit to Test Tires at 300 Mph 43 Allison Forms New Missile Product Department 43

DEPARTMENTS

Calendar Of Coming Events	3
High Spots Of This Issue	3
News Of The Automotive And Aviation Industries	3
Men In The News	4
The Business Pulse	4
Industry Statistics	4
Airbriefs. By David A. Partridge	5
Machinery News. By Charles A. Weinert	5
New Plant And Production Equipment	5
New Automotive And Aviation Products	5
Shorties	6
More Government Contract Awards	7
On Our Washington Wire	7
Free Literature	suc

Business	Department	And	Staff	 	× .	 		 	×	35
Chilton	Officers And	Direc	tors	 				 		35
Advertis	er's Index .			 		 		 		260

EDITORIAL STAFF

JAMES R. CUSTER, Editor H. H. ROBERTS, Engineering Editor ANDREW SHEARER, Market Research Editor ROBERT P. HOMER, Editorial Production Mgr. DAVID A. PARTRIDGE. Aviation Editor MARCUS AINSWORTH, Statistical Editor HAROLD M. NELSON, Specifications Editor SAMUEL CUMMINGS. News Editor HOWARD KOHLBRENNER, Art Director JANE LIVINGSTON, Products Guide Editor Assistants—Inza Sherburne, Marion March

DETROIT

Joseph Geschelin, Detroit Editor Hugh C. Quinn, Detroit News Editor

PHILADELPHIA & NEW YORK Charles A. Weinert, Eastern Editor

WASHINGTON

George H. Baker, Washington Editor Ray M. Stroupe, Wash. News Editor Nell R. Regeimbal, Wash. News Editor

CHICAGO

Kenneth Rose, Mid-West Editor LOS ANGELES

R. Raymond Kay, Pacific Coast Editor

BERN

Robert S. Braunschweig, European Correspondent

LONDON

David Scott, British Correspondent

Paul Wooten, Washington Member, Editorial Board Robert Gunning, Readability Consultant

As part of its worldwide automotive and aviation news coverage, AUTOMOTIVE INDUS-TRIES is serviced by United Press International and has editorial correspondents in major United States and Foreign industrial centers



Publications. Inc.

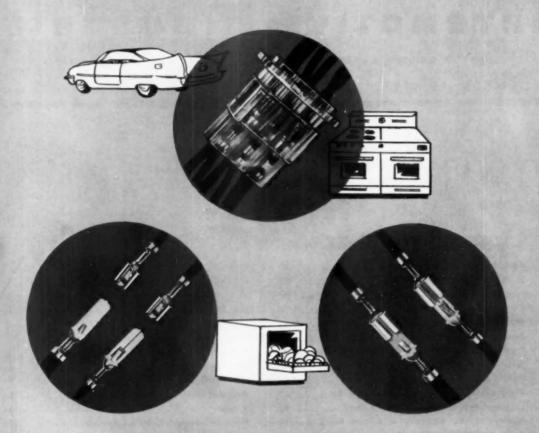


Audit Bureau of Circulations

Copyright 1958 by Chilton Company

AUTOMOTIVE INDUSTRIES is a consolidation of The Automobile (weekly) and the Motor Review (weekly) May, 1902; Dealer and Repairman (wonthly), October, 1903 the Automobile Magazine (monthly), July, 1907, and the Horseless Age (weekly) founded in 1895, May, 1918. EDITORIAL EXECUTIVE OFFICES, Chestnut and 56th Sts., Philadelphia 39, Pa., U. S. A. Cable address-Autoland, Philadelphia.

AUTOMOTIVE INDUSTRIES Published semi-monthly by Chilton Company, Chestnut & 56th Sis., Phila 39. Second Class Postage Paid at Philadelphia, Pa.; Under the Act of Compress of March 3, 1879. Subscription price: To manufacturers in and suppliers to the automotive industries in the U. S., U. S. Possessions and Canada, \$2.00 per year; \$3.00 for 2 years. All Others, \$10.00 per year. Single copies, 50c. Statistical Issue, \$1.00.



A True Short Cut to Superior Circuit Connections . . . The NEW ASSAULT FASTIN-FASTON Harness Connector VIBRATION RESISTANT • VERSATILE • COMPACT

- For appliance and automotive wiring, Fastin-Faston saves time, money, trouble . . . in both designing and production.
- Firm wire support . . . perfect conductivity under severe vibration conditions even
 as a free hanging unit. Simplifies such operations as the connecting of wall switches
 to built-in ranges . . . top with bottom circuits in clothes washers . . . front and back
 assemblies to car electrical systems.
- Connects up to six separate circuits when polarized unit is snapped together.
- Finger grip engagement and disengagement.
- Uses quick, easy-to-apply Faston Terminals. Housing is fabricated of nylon for superior mechanical and electrical performance. UL approved.

Write today for additional information of A-MP® Fastin-Faston Harness Connectors.

AMP INCORPORATED

GENERAL OFFICES: HARRISBURG, PENNSYLVANIA

A-MP products and engineering assistance are available through wholly-owned subsidiaries in: Canada-England-France-Holland-Japet

Announcing the new Timken-Detroit®

"center point" steer front axles

for easier steering, greater safety, and reduced maintenance costs!

Timken-Detroit's new "Center Point" Steer Front Axles give your heavy-duty vehicles the advantage of easy steering without the additional weight and cost penalties of power assistance.

With Center Point Design the king pin is perpendicular to the ground, and is moved outward into the wheel. This puts the centerline of the tire and the centerline of the wheel on a relatively common plane. Because the king pin is in a true vertical position, it eliminates the heavy front end "load lifting" that is normally required when turning the conventional axle.

Steering resistance is thus greatly reduced, at no sacrifice in vehicle control. Drivers become less fatigued, safety is increased. And because road shocks and lateral pressures are transmitted more directly to the axle beam, tires and steering parts last longer . . . maintenance costs and downtime are reduced.



WORLD'S LARGEST MANUFACTURER OF AXLES FOR TRUCKS, BUSES AND TRAILERS

TIMKEN-DETROIT CENTER POINT STEER FRONT AXLES

Give You Three Major Advantages:

Easy steering—less weight, lower cost than with power assistance!

Safer operation — better vehicle control and less driver fatique!

Reduced maintenance costs—tires and steering parts last longer!

Plants at: Detroit, Michigan Oshkosh, Wisconsin • Kenton and Newark, Ohio New Castle, Pennsylvania



Products of ROCKWELL-STANDARD Corporation

NEW!

CLECO 6 SERIES SCREWDRIVERS WITH UNEQUALED **TORQUE CONTROL!**



Reversible Screwdriver Actual Size

Cleco No. 6 Series Reversible Screwdrivers being used in typical production

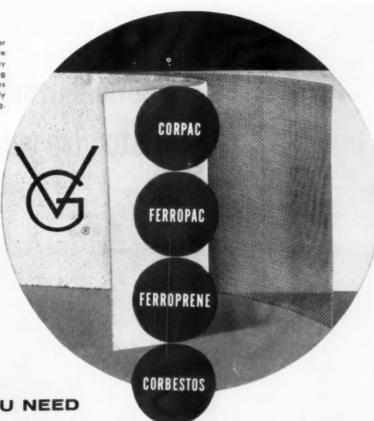
Powered by the new CLECO air motor and equipped with the new rolling-type clutch, the No. 6 Series Screwdriver-Nutrunners are far and away the outstanding tools in their class. They are lighter, quieter, more powerful and require less air than ever before. Torque-holding accuracy is greater than the per cent variation in the fasteners themselves. Torque adjustment is fast and simple, with a unique, selflocking feature which eliminates drift. The clutch itself, also exclusive on CLECO tools, completely eliminates the slugging characteristic of clutches working on the inclined-plane principle, assuring a high degree of uniform, sustained accuracy and long, trouble-free life. Ask your CLECO representative for complete details on this great new line of pneumatic tools.

WRITE FOR NEW LITERATURE!



P. O. BOX 2119 • HOUSTON 1, TEXAS
IN CANADA: Cleco Pneumatic Tool Company of Canada, Ltd.
927 Millwood Road, Leaside (Toronto), Ontario

LOCKED-FOR-LIFE Victor construction. Packing and core are permanently bonded by means of formed tang projections on both faces of core, clinched into body of packing.



WHERE YOU NEED
STEEL CORE PACKING
VICTOR
FILLS THE NEED

VICTOCOR

Typical Standard Types

CORPAC—Synthetic rubber-asbestos sheet (Asbestoprene), both faces. Used under high heat and oil, with medium to high flange pressures. Three grades.

FERROPAC —Treated paper packing (Victorite), both faces. For service against gasoline, oil, grease, water, under medium flange pressures. Holds up under frequent dismantling.

FERROPRENE—Compressed asbestos sheet packing (Victopac) one side, compounded synthetic rubber (Victoprene) on other. Useful under high heat and oil; low to medium flange pressures.

CORBESTOS—General-purpose, beater-treated asbestos sheet packing for use on oil, gasoline, water, steam, antifreeze. Adaptable to all temperature and bolting pressure needs. Six standard structures including double-sided, single-sided, steel-faced and laminated.

VICTOCOR—Compressed asbestos sheet packing, both faces. Low torque loss. High heat and crush resistance. For high flange pressures on hot oils, gasoling, water, antifreeze.

Where you're sealing under heavy loading, pounding or temperature, steel core packing is the modern specification. Its greater benefits and values are firmly established.

Actually it's the core that maintains a tight seal under tough conditions. It holds the packing in place, prevents shifting and extrusion. It resists torque loss on flattening because its effect on packing compressibility is nil.

From the widest range of highly engineered, SAE-ASTM rated packings, Victor literally can "tailor-make" steel core gaskets to your most precise specifications. Where needed, Victor successfully modifies the characteristics of standard types with virtually unlimited combinations and structures.

Get unbiased recommendations with complete technical and application data from your local Victor Field Engineer. Or contact the factory directly. Victor Mfg. & Gasket Co., P.O. Box 1333, Chicago 90, Ill. Canadian Plant: St. Thomas, Ont.

VICTOR

Sealing Products Exclusively

Your best sealing guide— Victor Gasket Engineering Catalog No. 505.



GASKETS . PACKINGS . OIL SEALS . MECHANICAL SEALS

Norton Type CTU Cylindrical Grinders knock out

production lags ... to give you

Standard Norton Type CTU Semiautomatic Grinders in 4" to 14" swings have the features you need to raise your profits. Automatic accessories for wheel truing, work loading and many other functions are available to further reduce manual effort and operator attention.

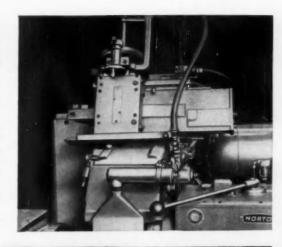


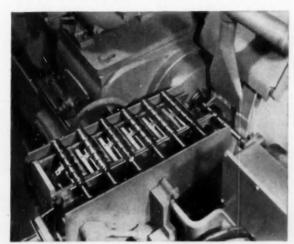


This 10" Norton machine is one of the CTU family of general purpose and semiautomatic precision cylindrical grinders — top performers in any... body's book. They lick production lag with a unique combination of speed, accuracy, flexibility and durability. Production line and job shop users report that Norton CTU's have doubled production, replaced several machines, eliminated extra operations. Write for Catalogs 531, 1488 and 1787.

These accessories boost your profits... give you the "Touch of Gold"

Automatic Truing knocks out time delay of manual operation. Abrasive and diamond savings provide an added "Touch of Gold."

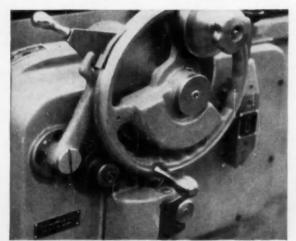




Fast Automatic Loading and Unloading through precise mechanical means. You rule out production lags from worker's fatigue and enable your operators to attend more than one machine.



Automatic Wheel Contact Accelerator reduces over-all cycle time and speeds production. You never "grind air" because wheel head movement adjusts to grinding rate only after the grinding wheel touches the work.



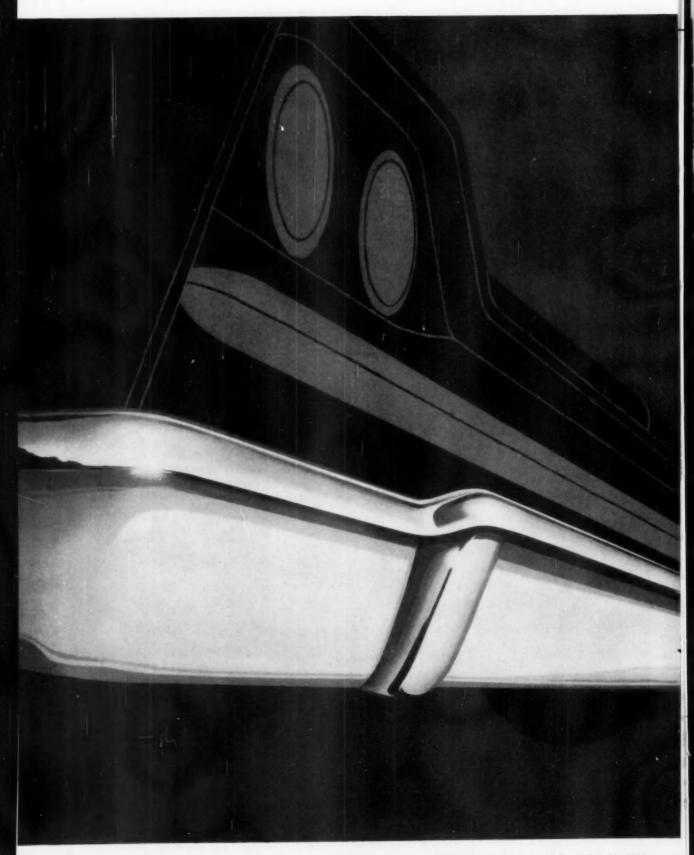
Automatic Wheel Wear Compensator eliminates interrupted production. It compensates for reduced wheel diameter by resetting the wheel head at each truing — whether or not operator is present.

Norton CTU Grinders and Accessories are sound investments for increased profits. They can raise your production by 100%. Remember: only Norton offers you such long experience in both grinding machines and grinding wheels to help you produce more at lower cost. NORTON COMPANY, Machine Division, Worcester 6, Massachusetts.

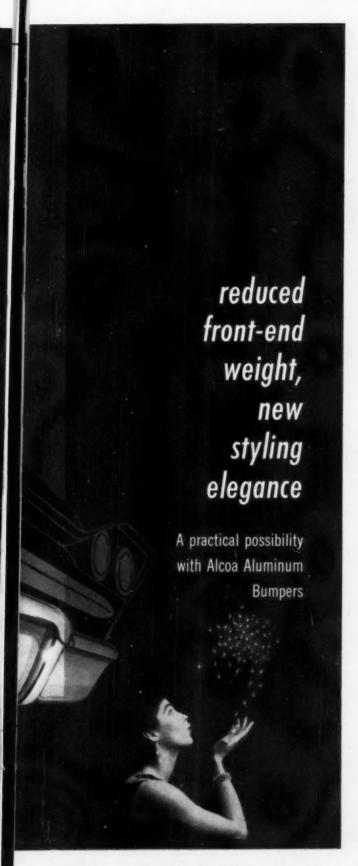
NORTON

GRINDERS and LAPPERS

Making better products . . . to make your products better
NORTON PRODUCTS Abrasives · Grinding Wheels · Grinding Machines · Retractories · Electrochemicals — BEHR-NANNING DIVISION Coated Abrasives · Sharpening Stones · Pressure-Sensitive Tapes
Bistrict Offices: Worcester · Hartford · Cleveland · Chicago · Betreit



Automotive Industries, December 15, 1958



Detroit's designers got no pat answers when they came to Alcoa with a special problem: how to get a lighter, more attractive bumper with no compromise in sturdiness and safety. Alcoa has four standard alloys that might do the job. But we weren't satisfied with that. So, working closely with our automotive colleagues, we developed *five new experimental alloys* that promise important advancements in forming, coloring and texturing bumpers. Here's why the all-aluminum bumper is an imminent "must" on all American passenger cars...

Weight Savings—Alcoa's new alloys save half the weight, or more, of steel. They can be increased in thickness and depth to surpass steel in strength and deflection characteristics and still save significant weight. A 30% increase in thickness, for example, can give aluminum nearly four times the energy-absorptive capacity of steel—yet the aluminum will weigh only 45% as much.

Broad Design Flexibility—Extrusions, forgings and combinations of techniques are far more practicable with aluminum. Its easy formability slashes tooling costs, saves much expensive machining. Medallions and other textures and patterns can be embossed right in the metal. Colors, too, can be made part of the metal through the magic process of anodizing.

Strength—Yield strengths of 35,000 psi are possible with Alcoa's new alloys. Even higher strengths are obtainable with some of these special materials.

Corrosion Resistance—Aluminum is highly resistant to the corrosive effects of road salt, noxious fumes, continuous moisture and humidity. Even when scratched, it shows no rust scars. Cleaning with mild soap and water keeps it sparkling new.

LET ALCOA HELP

Many of today's automotive advancements in the use of aluminum have come from Alcoa's facilities, the world's largest and most completely equipped. Our men, our methods and our years of experience are at your disposal. Let us work with you in developing a lighter, better-looking, completely safe bumper for America's automotive masterpieces. Write Aluminum Company of America, Development Division, 1848-MAlcoa Building, Pittsburgh 19, Pennsylvania.

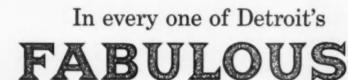
Alcoa Aluminum gives every car more Gleam and Go





Your Guide to the Best in Aluminum Value





dependable National Oil Seals

Year after year, Detroit achieves the impossible—improving constantly on the best cars in the world.

Year after year, we ride more smoothly, comfortably and quietly in high-performance automobiles of outstanding beauty.

And year after year, Detroit has increased the brute ruggedness and unfailing dependability which have made American cars the world's envy.

Since the dawn of the Automotive Age, National has supplied vital oil seals for the wheels, power trains, engines and accessories of cars, trucks, buses and off-highway vehicles. National is proud of this record, proud to be a part of our nation's greatest industry, proud of the faith Detroit places in the products we make.

Our pledge: still better research and manufacturing to make sure National continues to mean "tomorrow's oil seals—today!"

NATIONAL SEAL

Division, Federal-Mogul-Bower Bearings, Inc. General Offices: Redwood City, California Plants: Redwood City and Downey, California, Van Wert, Ohio



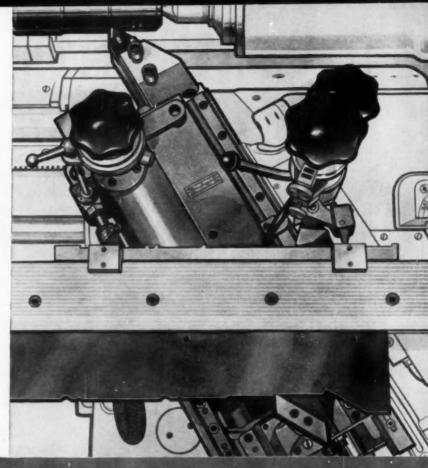
59's



Look at Single Point Tooling on New Britain +GF+



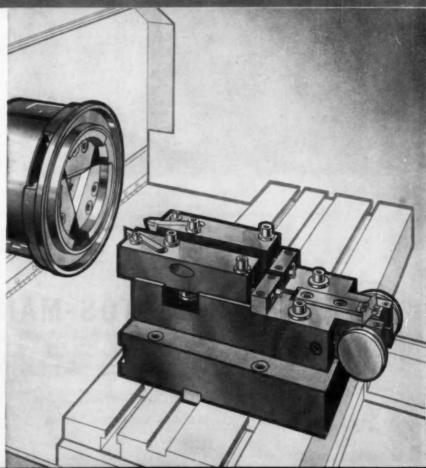
Outproduces gang tooling setups by reducing tool change time practically to zero, and by cutting at maximum speeds and feeds for tool efficiency.



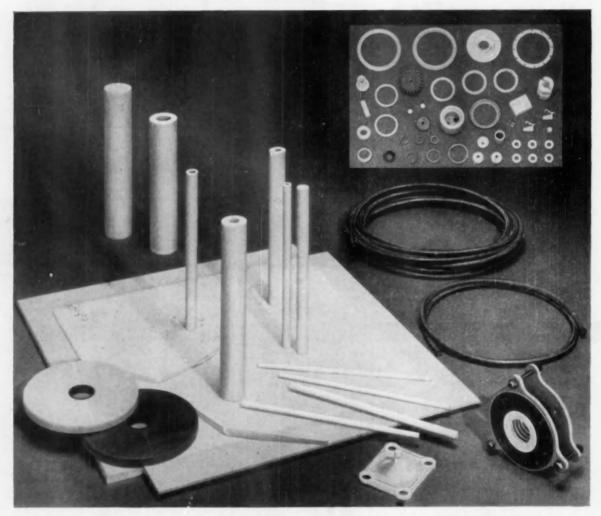
Look at New Britain's simple approach to problem pieces



Low cost per piece is inherent in New Britain Precision Boring Machines because of their simplicity, versatility, speed, repetitive accuracy and inexpensive tooling. New Britain-Gridley Machine Division, The New Britain Machine Company, New Britain, Connecticut.



If you need TEFLON* in <u>any</u> form R/M is the place to get it!



Raybestos-Manhattan pioneered in research and development in the use of "Teflon." R/M has had vast experience in fabricating this amazing substance . . . has accomplished things with it once thought impossible, such as molding highly complex valve diaphragms.

But R/M has more than the know-how—it has the facilities to produce "Teflon" in exactly the form you want it . . . can supply all your needs, from the usual types of

tubes, tape, rods, sheets and flexible wire braid covered hose to complicated molded and machined parts.

That is why R/M should be your headquarters for all your needs in products made of "Teflon," from simple standardized parts to intricate components painstakingly customized to your specifications. Call on your nearest R/M district office for the cooperation you need. Or write for detailed information.

*A. Du Pont trademark



RAYBESTOS-MANHATTAN, INC.

PLASTIC PRODUCTS DIVISION FACTORIES: MANHEIM, PA.; PARAMOUNT, CALIF.

Contact your nearest R/M district office listed below for more information or write to Plastic Products Division, Raybestos-Manhattan, Inc., Manheim, Pa.

BIRMINGHAM 1 • CHICAGO 31 • CLEVELAND 16 • DALLAS 26 • DENVER 18 • DETROIT 2 • HOUSTON 1 • LOS ANGELES 58 • MINNEAPOLIS 16

NEW ORLEANS 17 • PASSAIC • PHILADELPHIA 3 • PITTSBURGH 22 • SAN FRANCISCO 5 • SEATTLE 4 • PETERBOROUGH, ONTARIO, CANADA

RAYBESTOS-MANHATTAN, INC., Engineered Plastics • Asbestos Textiles • Mechanical Packings • Industrial Rubber • Sintered Metal Products • Rubber Covered Equipment
Abrasive and Diamond Wheels • Brake Linings • Brake Blocks • Clutch Facings • Laundry Pads and Covers • Industrial Adhesives • Bowling Balls



EENLEE SHAFT MACHINES



GREENLEE STANDARD AND SPECIAL MACHINE TOOLS

- Multiple-Spindle Drilling and Tapping Machines
- Transfer-Type Processing Machines
- Six and Four-Spindle Automatic Bar Machines
- Hydro-Borer Precision Boring Machines

HANDLE PRECUT SHAFTS UP TO 60" LENGTH

Simultaneous magazine loading and automatic ejection in one position pay off in the machining cycle. Standard tools machine shafts through the five remaining positions.

Special fourth position turning, facing or drilling operations can be performed on the back end of shafts long enough to extend past the back of the spindle. These operations occur simultaneously with normal front end machining.

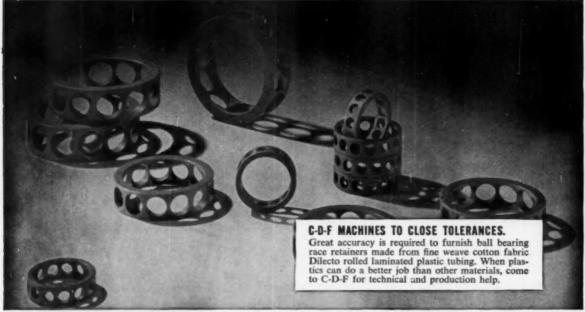
For greater accuracy, faster setup and production on your long shaft jobs, this Greenlee is the answer! Get the full story from your Greenlee representative.

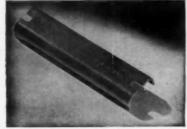
> Write today for Catalog A-405 first step on the way to more profitable production with Greenlee Automatic Bar Machines.



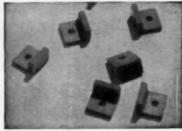
GREENLEE

1762 MASON AVE. ROCKFORD, ILL.





C-D-F PIONEERED IN POST-FORMING of laminated plastics. This technique gives you stronger, more versatile insulating parts with lower costs. This aircraft channel strip is an example of simple postforming.



G-D-F DOES THE UNUSUAL. These rubbing blocks are made from fine-weave cotton cloth Dilecto molded tubing that has been pierced and cut. The part gains in mechanical strength — the product gets longer service life.

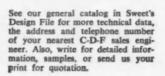


G-D-F SPECIALIZES IN AUTOMATIC SCREW MACHINING of plastic components. These breaker arm bushings are made from Dilecto paper base rolled tubing on high speed machines by men who know and use cost saving methods.

Yes, CDF is a big reliable source for fabricated plastics!



C-D-F SERVES MANY INDUSTRIES with fabricated specialties. A great amount is concentrated in the automotive and allied fields. This aircraft part has a corrugated surface on a strong woven asbestos lamimated base.





C-D-F IS A PUNCHING SPECIALIST on these starter solenoid insulators. This is XX-26 Dilecto molded channel strippierced and punched to length. Special C-D-F punching grades give you lower costs, faster assembly, fewer rejects.



C-D-F COMES UP WITH THE ANSWERS to insulating problems. These unique snap-in grommets are easy to insert, spring out and hold tight. Write for samples. The chances are that C-D-F is already making the answer to your problem.



CONTINENTAL-DIAMOND FIBRE

A SUBSIDIARY OF THE Book COMPANY . NEWARK 2, DEL.

Seauty

for the life of the car

1958

Automobile trim of Superior Stainless STRIP STEEL

You can't tell the age of a car by its stainless steel!

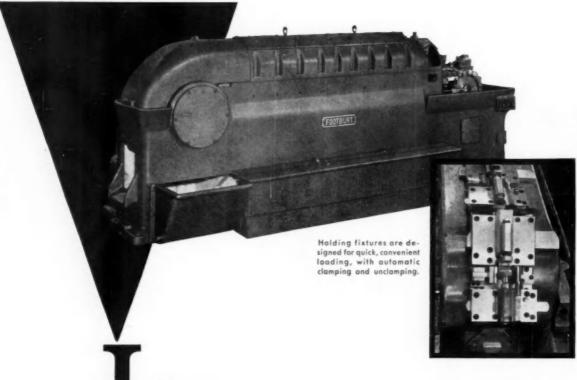
After a thousand or two hundred thousand miles of driving, Superior Stainless gleams good as new.

• Enjoy the beauty of stainless on the cars you buy—costs you nothing in care, gives you everything in pride and pleasure!

Superior Steel

COPPERWELD STEEL COM

CARNEGIE, PENNSYLVANIA



OWER COST... PER PIECE WITH SURFACE BROACHING OF SMALL PARTS



In many plants where large quantities of duplicate metal parts are being machined, substantial savings are being made through the adoption of surface broaching. Production is exceptionally high, close tolerances are maintained, and tool maintenance costs are much lower than with ordinary methods. Foote-Burt engineers, pioneers in this advanced machining method, have had a wide experience in applying surface broaching, in many fields.





THE FOOTE-BURT COMPANY

Cleveland 8, Ohio

Detroit Office: 24632 Northwestern Highway, Detroit 35, Mich.

ENGINEERED FOR PRODUCTION

Write for Circular No. 503

FOOTBURT

PIONEERS IN SURFACE BROACHING

ENJAY BUTYL fabulous new rubber

Helps new cars ride better



Your ride is smoother, quieter, more comfortable, because today's new cars use Enjay Butyl rubber. It absorbs road shock, cushions vibration, waterseals joints between glass and steel. It also resists aging better than natural and other types of rubber. You'll find Butyl used in more than 100 places in today's modern cars.







UNIVERSAL ELECTRIC

TO RETIRE THIS 50 YEAR

OLD VETERAN



PNEUMATIC TOOLS . AIR COMPRESSORS . ELECTRIC TOOLS . DIESEL ENGINES . ROCK DRILLS . HYDRAULIC TOOLS . VACUUM PUMPS . AVIATION ACCESSORIES

Next ... full seating in comfortable, economical

(Based on NACCONATES® Diisocyanates)

Either molded or fabricated from slab stock, automobile seats made entirely of urethane foam promise substantial savings in production time and labor. Yet urethane equals or surpasses any previous construction in comfort and all-around performance.

Urethane can combine showroom comfort with minimum road jounce. It eliminates fear of bottoming . . . reduces the sidesway in cornering that is usually associated with foam.

Our application laboratories are currently engaged in research on molding

and testing urethane seats for automotive use. We will gladly work with automotive designers and engineers in furthering this development. Urethane resists sun, heat, weather. Unaffected by cleaning solvents and detergents used on fabrics. Labor-saving, by foaming-in-place against vinyl, leather and other outer coverings is an early prospect. Increased load-bearing capacity slimmer seat cushion gives added headroom

NATIONAL ANILINE DIVISION

40 RECTOR STREET, NEW YORK 6, N. Y. Atlante Bocton Cherlotte Chettonooge Chicago Sreenshore Los Angeles Philodelphie Partiend, Gre. Providence San Francisco



Oldest in age Still in the lead

loose needles

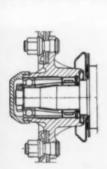
needle cartridges

complete bearings

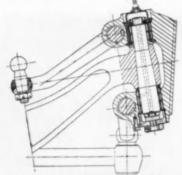




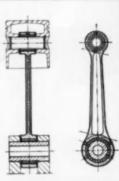




WHEEL HUB



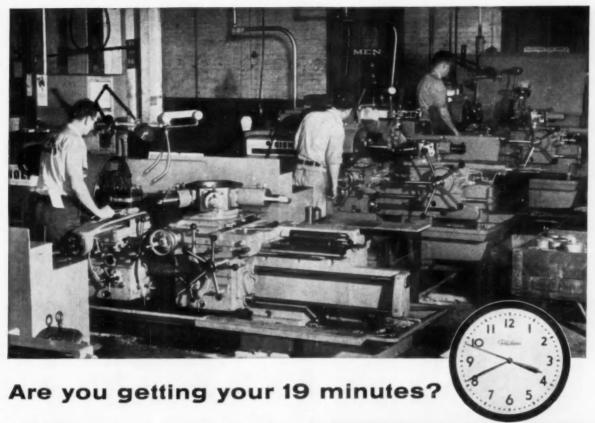
KING PIN (FRONT AXLE)



CONNECTING ROD



133 à 137 BOUL. NATIONAL - RUEIL-MALMAISON (5.-&-O.) FRANCE



Recent studies prove the average manufacturer operates at a profit only during the last 19 minutes of every working day.

What happens to the rest of the day's output? According to the National Association of Manufacturers, it goes to pay the costs of doing business.

Think what this means to manufacturers attempting to produce profitably with obsolete equipment...with machining unavoidably representing a large part of the manufacturing cost.

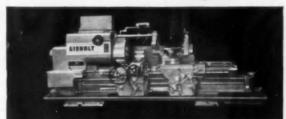
The thin line between profit and loss in your operation can well hinge on your taking advantage of modern, high-speed machine tools with ample power, reserve feeds and speeds, and maximum flexibility.

If you have obsolete equipment in your shop, now is the time to look at it closely and critically. The difference between the old and the new may amaze you. Find out now just how much obsolete machines are holding you back.

Why not call in your Gisholt Representative and talk it over with him? He'll give you fair and accurate appraisals of any machine's productive output. Call him today.



ASK YOUR GISHOLT REPRESENTATIVE ABOUT FACTORY-REBUILT MACHINES WITH NEW-MACHINE GUARANTEE



Gisholt MASTERLINE Saddle Type Turret Lathe

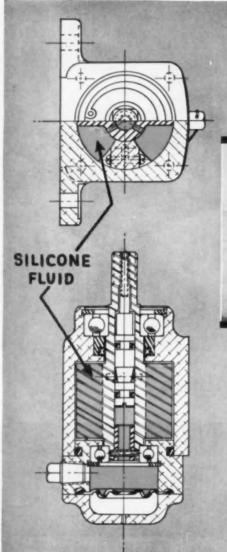
Rugged headstock gear train provides 24 different forward speeds—all from a single-speed motor, for full power on all cuts.

Hydraulic speed selector permits effortless speed shifts without stopping spindle or shifting gears.

Here's a rugged, powerful machine that delivers maximum output and accuracy from today's carbide tools—and has ample reserve to meet tomorrow's tooling requirements.

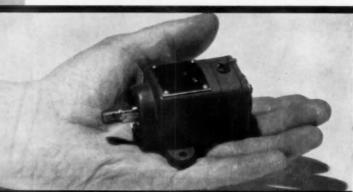
Contact your Gisholt Representative today for full details.

_	
	Gisholt Machine Company Madison 10, Wisconsin
	☐ Send Saddle Type Turret Lathe Literature. ☐ Have Gisholt Representative call.
	NameTitle
	Street Address
	CityState



VIBRATION DAMPER EFFECTIVE OVER 225 DEGREE RANGE, NEEDS NO TEMPERATURE COMPENSATION

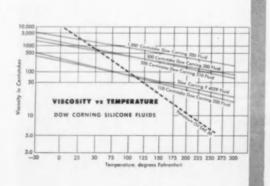
Sesco Manufacturing, Inc., produces an extensive line of aircraft vibration damping mechanisms utilizing Dow Corning Fluids. Shown is the Model 1025 Miniature Viscous Damper, which damps at rates of 0.5 to 25 inch-pounds per radian per second at 70 F. This unit, effective from —65 to 160 F, needs no temperature compensation over its entire range due to the silicone fluid's stability and indifference to temperature change. Vibration damper Model 1025 offers the advantages of small size, light weight, and minimum friction torque.



How to design for higher efficiency with

SILICONE FLUIDS

Dow Corning silicone fluids offer you wider design latitude through many advantages not found in petroleum-base oils. Silicone fluids show little change in viscosity over broad temperature ranges. Resistance to oxidation and to breakdown due to shear are excellent. Damping force, torque transmission and rate of flow through an orifice are remarkably uniform. These properties make Dow Corning fluids more efficient media for damping, torque conversion and hydraulic applications. Also, their greater compressibility under very high pressures makes them ideal for liquid springs. For more information on properties and performance data, call our technical representatives in the branch office nearest you, or write Dept. 0612.





BOSTON * CHICAGO * CLEVELAND * DALLAS LOS ANGELES * NEW YORK * WASHINGTON, D. C.

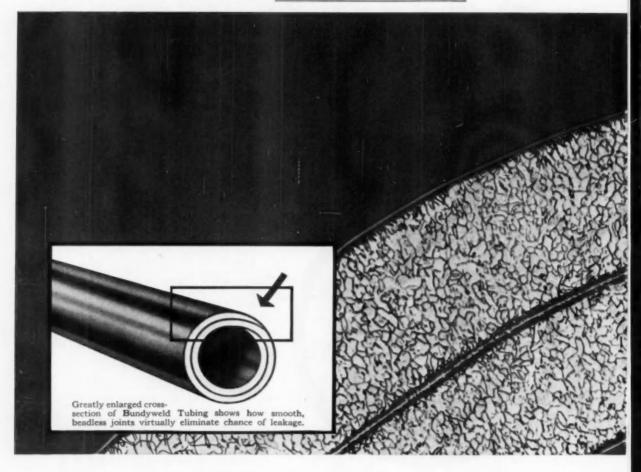
POWER UP ...

with **DENISON** hydraulic equipment...

CATERPILLAR did!

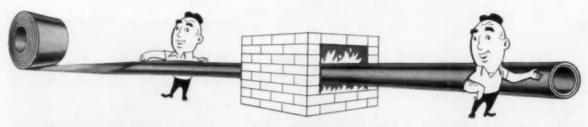


WHY BUNDY LEADS IN MASS-FABRICATION:



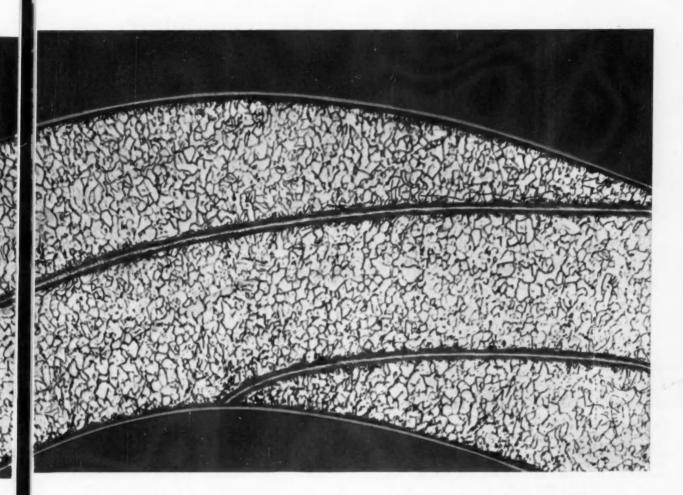
BEVELED EDGES...Another reason why Bundyweld

And Bundyweld can be mass-fabricated with speed and precision—at minimum unit-cost because of these Bundy advantages:



Bundyweld starts as a single strip of copper-coated steel. Then it's continuously rolled twice around laterally . . .

into a tube of uniform thickness, and passed through a furnace where copper coating fuses with steel. Result: Bundyweld Tubing—doublewalled, beadless, metallurgically bonded through 360° of wall contact.



is stronger, smoother, easier to fabricate

These Bundy*-developed beveled edges provide smooth, beadless joints, inside and out; insure full, double-walled strength however the tubing is cut or bent. They're one reason why Bundy leads in mass-fabrication; here are three more:

Bundyweld. Tubing is double-walled from a single strip, copper-brazed for high strength and resistance to vibration-fatigue in fluid-transmission or mechanical applications. From brakelines to pushrods, Bundyweld is on 95% of today's cars, in an average of 20 uses each.

Bundyweld designers are on call at any stage in the development of your product. They'll help work the kinks out of knotty tubing problems . . . find money-saving shortcuts with no compromise in function.

Bundy fabricators use special Bundy-designed fixtures and machines to mass-fabricate parts to your specifications, at low unit-cost.

Check first with Bundy! You'll get the best in small-diameter tubing, plus the finest design and fabrication services available. Call, write or wire us today!

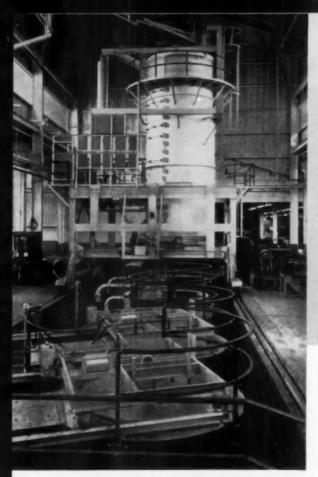
BUNDY TUBING COMPANY . DETROIT 14, MICHIGAN

WORLD'S LARGEST PRODUCER OF SMALL-DIAMETER TUBING . AFFILIATED PLANTS IN AUSTRALIA, ENGLAND, FRANCE, GERMANY, AND ITALY

There's no real substitute for

BUNDYWELD TUBING

Bundyweld and Bundy specialty tubings are sold through distributors in principal cities



Improved Gentry type hardening furnace for missiles. Latest development of standard Gantry type, this huge furnace provides more economical, faster production and improved metallurgical qualities in treating missile parts. The installation consists of the electric, controlled atmosphere, Gantry type furnace and two draw furnaces, a hot water wash tank, a salt bath quench and a nitrogen generator. The Gantry type furnace moves under power over the entire installation to load or unload at any of the pit stations. Both design and installations by Lindberg.

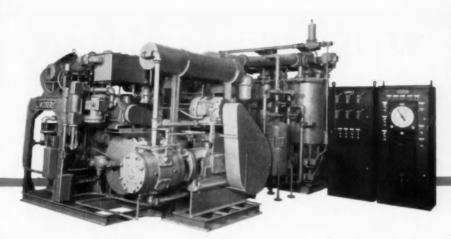
Induction Aluminum Billet Heuter. This exclusive new Lindberg induction billet heater provides aluminum extruders with an accurate, efficient solution to a difficult production problem. It features "Metered BTU's", an improved control system for heating aluminum billets. The heating rate of billet is controlled and each billet automatically delivered to the die-casting machine at the exact temperature required for most efficient extrusion.

Full information on any of these new Lindberg developments is available from Lindberg Engineering Company, 2491 W. Hubbard St., Chicago 12, III.

This year alone Lindberg has developed five major improvements in the application of heat to industry

Not so many months back business wasn't booming in the metalworking field. But through this period, Lindberg went steadily ahead with its policy of helping make business better by constantly seeking better ways to apply heat to industry. Fortunately, Lindberg has the research experts, the designers, the engineers to implement this policy. As evidence, shown on these pages are five major Lindberg developments of the past twelve months. In their respective spheres these offer industry more efficient, more productive, more economical industrial heating equipment.





Hyni Nitragen Generator. This Lindberg Hyni nitrogen atmosphere generator is the latest development in gas processing and assures nitrogen of higher purity than has ever before been achieved by other processes. It is the first unit to provide low cost, high purity nitrogen by a dry, completely automatic process. It is suitable for any application where a high nitrogen, CO₂ free, dry atmosphere is required. The unit functions automatically, and once the generator is started, the entire operation is completely automatic and continuous.

Over the years Lindberg has consistently pioneered major advancements in industrial heating equipment . . . the famous Cyclone furnace, applying the first 100% forced convection heating principle . . . the first high temperature (2200° F.) endothermic generator . . . the development of controlled atmosphere generators, the creation of dew point equilibrium curves to establish proper atmosphere values and the exclusive Lindberg Carbotrol to maintain these values automatically . . . the "dimple" vertical radiant tube for fuel fired furnaces . . . the revolutionary CORRTHERM electrical heating element. Lindberg equipment and Lindberg planning

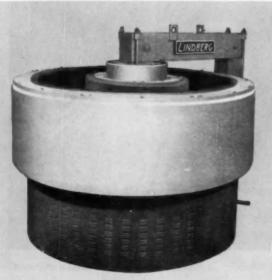
can help you find the most effective answer to any problem of applying heat to industry. We cover the field, heat treating, melting and holding, brazing, enameling furnaces, ceramic kilns, high frequency units, and are in the ideal position to recommend just the type of equipment most suitable for your needs. Consult your local Lindberg Field Representative (see the classified phone book) or get in touch with us direct.

Lindberg Engineering Company 2491 West Hubbard Street, Chicago 12, Illinois

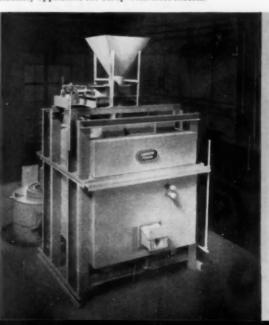
Los Angeles Plant: 11937 S. Regentview Avenue at Downey, Calif.

Induct-O-Ring Rotary Suit Buth Furnace. Offering for the first time an electric salt bath furnace that can be shut down over night or week end and regain efficient operating temperature quickly. Positive quality control is provided by rotary action of furnace and variable speed drive which insure exactly same time in bath for all parts. Gives precise temperature uniformity and control unequalled by any other salt bath furnace design. Offers greatly lowered operating, maintenance and initial investment costs compared with standard externally heated pot or electrode types.

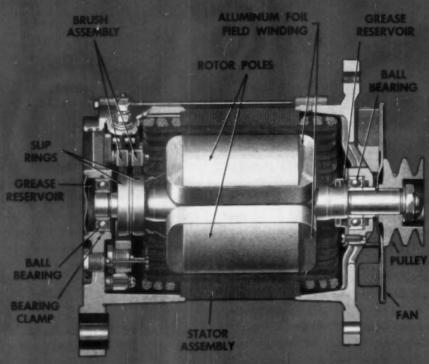
Electric Controlled Atmosphere Dry Hearth Melting Furnace. This new Lindberg-Fisher Melting Furnace operates electrically and oxidation of aluminum, or melt loss, is reduced because the entire system can be pressurized with atmosphere. The only oxides incurred are those from the surface of the scrap, as charged. The furnace contains a sloping silicon carbide dry hearth which directs the molten aluminum through a covered trough into the companion holding furnace. Substantial savings in lower melt loss and maintenance is low. Particularly applicable for scrap with steel inserts.



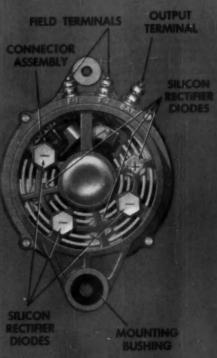
Circle 127 on Inquiry Card for more data



NOW! REAL CHARGE-AT-IDLE,



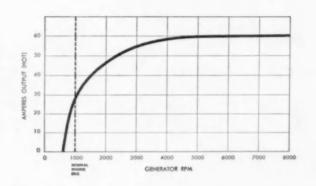
PROGRESSIVE ENGINEERING MAKES THE DIFFERENCE



UP TO TWICE THE TOTAL OUTPUT

WHEN YOU REPLACE STANDARD D.C. EQUIPMENT WITH DELCO-REMY'S NEW SELF-RECTIFYING A.C. GENERATOR





Here's a completely new generator from Delco-Remy specifically designed to take care of cars and trucks with extra-heavy electrical loads under all traffic conditions . . . to increase battery life by eliminating deep cycling.

Designed to mount interchangeably with most standard d.c. generators, this compact new unit is only $5\frac{3}{4}$ " in diameter and weighs just 31 pounds. The a.c. design eliminates commutation problems, providing extra-long brush life . . . and the ball bearings are "lifetime" lubricated so that no attention is required between engine overhaul periods. Six specially developed silicon rectifiers built into the end frame eliminate the need for space-consuming external rectifier units, reducing installation time and cost to a minimum.

Be sure to specify this new self-rectifying a.c. generator along with its companion transistor regulator (either full or transistorized model) on your new special-duty equipment for 1959. This all-new power team is still another example of Delco-Remy progressive engineering at work for you.



GENERAL MOTORS LEADS THE WAY-STARTING WIT

Y-STARTING WITH Delco-Remy ELECTR

ELECTRICAL SYSTEM

DELCO-REMY

DIVISION OF GENERAL MOTORS

ANDERSON INDIANA



CEAR PERFORMANCE to match the ever-increasing power and speed of modern machines is a Fairfield specialty. This is possible because Fairfield has long held a position of leadership in utilizing the most advanced methods, equipment, and techniques for producing better gears. By keeping apace with modern engineering trends, Fairfield renders an invaluable service to many of the nation's leading machinery builders.

If you have a gear problem, check with Fairfield. Our engineers are well-qualified to give you expert recommendations. CALL OR WRITE.

SPUR GEARS—Straight, helical, and internal. Sizes from 16 pitch, 1½" dia., to 1½ pitch, 36" dia.

HERRINGBONE—(Fellows Type). Sizes from $1\frac{1}{2}$ " to 15"

SPIRAL BEVEL-Sizes from 16 pitch, 1½" dia., to 1½ pitch, 28" dia.

STRAIGHT BEVEL—Sizes from 16 pitch, 1½ " dia., to 1½ pitch, 28" dia.

HYPOID-Sizes from 11/2" to 28" dia.

ZEROL—Sizes from 16 pitch, $1\frac{1}{2}$ " dia., to $1\frac{1}{2}$ pitch, 21" dia.

WORMS AND WORM GEARS—Worms to 7" dia. Worm gears to 36" dia.

SPLINED SHAFTS - Lengths to 72".

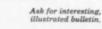
DIFFERENTIALS — 3,000 to 500,000 inch pounds capacity.

Note: All of the sizes above are approximate.

FAIRFIELD

FAIRFIELD MANUFACTURING CO.

2303 S. Concord Rd. Lafayette, Indiana TELEPHONE: 2-7353





Gears and Differentials Made to Order for:

TRACTORS . HEAVY DUTY TRUCKS . AGRICULTURAL MACHINERY . POWER SHOVELS AND CRANES
MINING MACHINES . ROAD GRADERS . BUSES . STREET SWEEPERS . INDUSTRIAL LIFT TRUCKS

CALENDAR

OF COMING SHOWS AND MEETINGS

- 4th Convertible Aircraft Congress, Franklin Institute, Philadelphia, Pa. Dec. 16

1959

- SAE Annual Meeting, Sheraton-Cadillac and Statler Hotels, Detroit, Mich. Jan. 12-16
- 49th Annual National Motor Boat Show, New York Coliseum, New York, N. Y.Jan. 16-25
- American Society of Lubrication Engineers, First Annual Gear Symposium, Morrison Hotel, Chicago, III. Jan. 26-27
- Institute of Aeronautical Sciences, 27th annual meeting, Sheraton-Astor Hotel, New York, N. Y.
- Plant Maintenance & Engineering Show, Public Auditorium, Cleveland, O. Jan. 26-29
- 5th Annual Midwest Welding Conference, sponsored by Armour Research Foundation and Chicago Section of American Welding Society, at Illinois Institute of Technology, Chicago, III. Jan. 28-29
- First International Symposium on Nuclear Fuel Elements, sponsored by Columbia University and Sylvania-Corning Nuclear Corp., at Columbia University, New York, N. Y. Jan. 28-29
- American Society for Testing Materials, Committee D-2 meeting, Sheraton-Jefferson Hotel, St. Louis, Mo. Feb. 1-6
- Automotive Accessories Manufacturers of America, 32nd annual exposition, New York Coliseum, New York, N. Y. Feb. 2-5
- 14th Reinforced Plastics Division
 Conference, sponsored by Society of Plastics Industry, Inc.,
 Edgewater Beach Hotel, Chicago, III. Feb. 3-5
- Industrial Management Engineering Conference, Illinois Institute of Technology, Metallurgical and Chemical Engineering Bldg., 10 W. 33rd St., Chicago, Ill. Feb. 5-6



Bushings and Washers with bearing properties Give Performance with Economy!

Formed bushings—alloy lined to provide some of the load-carrying characteristics of a bearing—are economical to produce. Oil grooves, holes, pockets, cut-outs, chamfers, straight, lock or special seams can be made in the flat blanks before forming. Available in solid bronze, or steel with babbitt, bronze or aluminum alloy linings, in a wide range of lengths and diameters.

Precision thrust washers of solid bronze, or steel with bronze on one or both faces, may be flat, spherical or special shapes, with grooves, holes, nibs, lugs or scallops. Cold-rolled for exceptional hardness in heavy-duty use. 1" to 6" O.D.

Design data sent on request. Complete engineering service. Address:

FEDERAL-MOGUL DIVISION

FEDERAL-MOGUL-BOWER BEARINGS, INC., 11037 SHOEMAKER, DETROIT 13, MICHIGAN



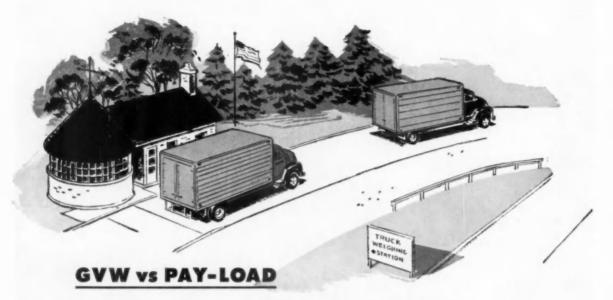




Camshaft Bearings







WHERE A POUND SAVED IS A DOLLAR EARNED!

By saving dead weight, vacuum power can add several hundred pounds to <u>pay-load</u>, and earn extra dollars, as ton-miles build up.

In addition there is vital safety in having physical braking instantly available should power fail for any reason.

For these and other important reasons, vacuum power is the overwhelming choice on trucks, and Hydrovac* leads all other makes combined.

... It will pay you to look into

HYDROVAC (VACUUM HYDRAULIC) POWER BRAKING BY BENDIX

PEG. U.S. PAT. OFF

Bendix PRODUCTS South Bend, IND.



AUTOMOTIVE INDUSTRIES

BUSINESS DEPARTMENT

John C. Hildreth, Jr., Publisher John F. Pfeffer, Asst. to Publisher E. H. Miller, Advertising Mgr. James Cadigan, Circulation Mgr. Norman Lloyd, Marketing Mgr. John H. Kofron, Research Director

REGIONAL MANAGERS

CHICAGO—Carl A. Zehner 360 North Michigan Ave. Chicago I, III. Phone RAndolph 6-2166

DETROIT—Thomas L. Pickrell 103 Pallister Ave. Detroit 2, Mich. Phone TRinity 3-7800

PHILADELPHIA and NEW YORK— Nelson W. Sieber Chestnut and 56th Sts. Philadelphia 39, Pa. Phone SHerwood 8-2000 and 100 East 42nd St.

100 East 42nd St. New York 17, N. Y. Phone OXford 7-3400

NEW YORK—Robert P. Hulbert 100 East 42nd St. New York 17, N. Y. Phone OXford 7-3400

CLEVELAND—George Kilbride 930 B. F. Keith Bldg. Cleveland 15, Ohio Phone SUperior 1-2860

DALLAS—William J. Smyth 189 Meadows Bldg. Dallas 6, Tex. Phone EMerson 8-4751

SAN FRANCISCO—Frank W. McKenzie 1355 Market St. San Francisco 3, Calif. Phone UNderhill 1-9737

LOS ANGELES—L. H. Jackson 198 S. Alvarado St. Los Angeles 57, Calif. Phone DUnkirk 7-4337

ATLANTA—John W. Sangston 1371 Peachtree St., N.E. Atlanta 9, Ga. Phone TRinity 6-4110

> One of the Publications Owned by

CHILTON O COMPANY

Executive Offices
Chestnut & 56th Sts.
Philadelphia 39, Pa., U.S.A.

Officers and Directors

JOSEPH S. HILDRETH, Chairman of Board G. C. BUZBY, President

P. M. FAHRENDORF L. V. ROWLANDS
ROBERT E. McKENNA GEORGE T. HOOK
Treasurer—WILLIAM H. VALLAR
Secretary—JOHN BLAIR MOFFETT
MAURICE E. COX FRANK P. TIGHE
EVERIT B. TERHUNE, JR.
JOHN C. HILDRETH, JR.

RUSSELL W. CASE, JR.
STANLET APPLEBY—Comptroller

High Spots of This Issue

▼ A. I. Products Guide

The Products Guide, which takes up most of the pages of this issue, will be a regular feature in each succeeding December 15th number of AUTOMOTIVE INDUSTRIES, as part of its expanding reader service. This handy guide provides a ready source for locating suppliers of countless products, machines and equipment used in automotive and aircraft manufacturing. The listings are carefully compiled from information submitted by the companies whose products are contained herein. See Page 97.

▼ News of the Machinery Industries

Machine tool sales turned upward in October with the highest volume of the year. The latest figures on shipments and net new orders are given here. In addition, News of the Machinery Industries outlines the latest views of tax experts on present depreciation policies. Page 52.

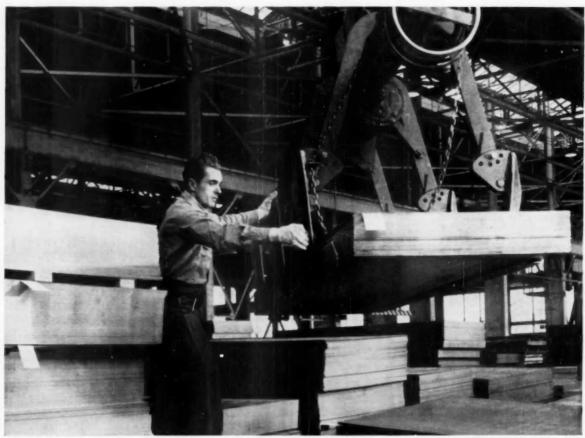
▼ Airbriefs

All is not lost when a major aircraft or missile project is halted in the middle of its development. Valuable information is obtained from every cancellation. *Airbriefs* cites a case history to illustrate why this is so. Page 50.

▼ The Business Pulse

Labor disputes have played a major role in retarding expected rates of gain in many industries, including the automotive, this Fall. All in all, however, the autumn record is not too disappointing, and indications for the future are reasonably good. Supporting this thesis are gains recorded in retail sales and capital spending plans. Page 47.

PASSENGER CARS • TRUCKS • BUSES • AIRCRAFT • TRACTORS • ENGINES • BODIES • TRAILERS • ROAD MACHINERY • FARM MACHINERY • PARTS AND COMPONENTS • ACCESSORIES • PRODUCTION EQUIPMENT SERVICE EQUIPMENT • MAINTENANCE EQUIPMENT • MANAGEMENT



Flat sheets in 577 different lengths—up to 16'.

Now...reduce sheet-forming costs with Ryerson quality-controlled steel



Accurate slitting on widths up to 48".

Whether you use hot or cold rolled sheet or strip, you can now make sure of the utmost in formability and weldability—by ordering to .10 maximum carbon content (SAE 1008) from Ryerson.

This means you can minimize, or even eliminate, the problems of variation in forming and welding quality—caused by the average wider range of carbon content.

You'll also find Ryerson prepared to give you fast, accurate service on your special requirements: strip and sketch cutting, blank shearing, edging, coil slitting, etc.

A Ryerson sheet and strip specialist is as near as your telephone—qualified by experience to recommend the stock exactly suited to your requirements, at the lowest cost. Put Ryerson steel experience and unequaled facilities on your cost-cutting team today.



RYERSON STEEL

Member of the Trans Steel Family

Principal Products: Carbon, alloy and stainless steel—tubing, bars, structurals, plates, sheets, tubing—aluminum, industrial plastics, metalworking machinery, etc.

JOSEPH T, RYERSON & SON, INC. PLANTS AT: NEW YORK - BOSTON - WALLINGFORD, CONN. • PHILADELPHIA • CHARLOTTE • CINCINNATI
CLEVELAND - DETROIT • PITTSBURGH - BUFFALO - INDIANAPOLIS • CHICAGO - MILWAUKEE - ST. LOUIS - LOS ANGELES • SAN FRANCISCO
SPOKANE - SEATTLE

News

OF THE AUTOMOTIVE AND AVIATION INDUSTRIES

Vol. 119, No. 12

December 15, 1958

American Motors Profit Tops \$26 Million for Fiscal Year

American Motors added another chapter to its 1958 success story with the recent announcement of a \$26 million profit for the fiscal year.

A fourth quarter that surpassed even George Romney's expectations put AMC earnings higher than the most intrepid Wall Street speculators had guessed. Earnings of \$11.5 million in the final three months nearly equalled the nine-month net of \$14.5 million.

And the outlook is even brighter for a good current quarter, based on current production schedules. Since AMC builds its cars on dealer orders, shipment of a vehicle means almost immediate payment to the factory.

AMC had net sales of \$111.8 million and unit sales of about 40,000 cars during the final quarter of 1958. This included August, when plants were down for model changeover and production totaled only 3062 units.

October and November production totaled nearly 53,000 cars and the quarter could end up with production of nearly 80,000 units. This could mean first-quarter profits of at least \$20 million, based on the same earning ratio.

A year ago AMC had a net loss of \$11.8 million on dollar sales of \$366.4 million and unit sales of 119,586 cars. This year the \$26 million profit came on dollar sales of \$470.3 million and unit sales of 189,807 vehicles.

AMC paid a 5 per cent stock dividend at the end of the fiscal year, only the second dividend payment since the company was organized. AMC stock value has increased roughly five times during the past year, making it by far one of the most active stocks on the market.

One reason for AMC's good profit position during the past year is the



STANDARD UNVEILS RESTYLED SPORTS CAR

A private viewing of a Triumph TR3 sports car styled by Michelotti was held recently at the Standard factory in Coventry, England. The Italian designer is reshaping all the companies car bodies, and this prototype is one of several under consideration. It features a U-shaped bumper, hooded lights, flared fins, and flat trunk deck.

tax loss carryforward still in use. AMC's earnings are taxfree. Romney said, however, that the \$21 million tax credit still available on Oct. 1 will be used up during 1959.

AMC, incidentally, has announced no plans for expansion of its automobile production facilities, although speculation is growing that the company will have to do some building or reshuffling.

One thing is certain: AMC will have to expand its manufacturing operations before it can do much to increase its final production. Manufacturing operations currently are working three seam-splitting shifts to keep up with double-shift assembly operations.

Various reports mention the possibilities of expansion in Kenosha and Milwaukee, of reopening the Toronto assembly plant to relieve the pressure of Canadian and export shipments from Wisconsin, and of setting up a manufacturing operation in the Detroit area.

Studebaker Returns to Work With Unique Three-Year Pact

Studebaker-Packard workers ended a three day strike Thanksgiving Day and ratified a unique agreement that ties in wage increases with sales of the new Lark.

S-P and the UAW signed a threeyear agreement with a one-year clause that provides wage increases as the Lark passes certain sales goals. The strike was the first authorized walkout in 106 years at Studebaker.

Terms of the agreement give production employes an immediate sevencent increase, four cents of which is being paid in anticipation of good sales. Here is the way it works:

One cent of the package represents a cost of living raise retroactive to last Sept. 1. Two cents is an unconditional raise, another two cents comes with wholesale factory sales of 60,000 cars, and the final two cents with sales of 90,000 cars.

By December 1, Studebaker had

NEWS AUTOMOTIVE



VOLVO FOR 1959 HAS NEW STYLING

The 1959 Volvo, a five-passenger family sports car, has been restyled inside and out for 1959. The Swedish-built car boasts Jarger one-piece windshield with slimmer pillars, bigger rear windows, wider rear seat, and new interior colors.

orders for about 50,000 cars but had delivered only 30,000.

In spite of this, Studebaker, banking on good sales, put the entire sevencent package into effect immediately. The company is taking the four cents being paid in anticipation of sales goals out of the five cents prescribed for SUB fund payments.

Until the 60,000 level is reached, SUB payments will be only one cent per worker. When the 90,000-car mark is reached the full five cents will be paid into the fund.

Skilled workers receive an additional nine cent increase, making a 16-cent package.

In other labor news, Bendix and the UAW reached an agreement that ended a week-long strike of 13,500 workers. A three-year contract patterned after the Big Three automobile pacts, provides continuation of the annual improvement factor, a cost of living raise, and an additional 8 cents for skilled workers.

Ford Div. Boosts Production For December by 5 Per Cent

Ford Div. has added to its overtime schedules and boosted its production rate by 5 per cent for the month of December in an effort to erase a heavy order backlog.

Divisional general manager J. O.

Wright said that more than a third of the increase will be in the new Galaxie series, which started in production Nov. 17. The original Galaxie daily rate of 674 units was increased to 2400 a day by the end of November.

Ford reported deliveries of 112,000 new cars in the first 30 days of the '59 model year, or some 40 per cent higher than the average for the first nine months of 1958. The backlog of retail orders at Thanksgiving was double the total of a year ago, according to the division.

LeTourneau Gets Army Award For 450-ft "Overland Train"

The Army awarded a \$1.7 million contract to R. G. LeTourneau, Inc., to build a 450-ft long "overland train" for Arctic and desert travel.

LeTourneau was one of 11 manufacturers who submitted design proposals to the Army Transportation Corps for a train that could operate under widely varying conditions of climate and environment.

The train will consist of a lead control car, a main generating power car, and 10 four-wheel, individually powered trailers—each carrying 15 tons. The lead car will have accommodations for a six-man crew, plus pushbutton controls for the entire

train, and a complete communications system.

Electric motors will be geared directly to the train's 52 wheels. Developed by LeTourneau, the wheels will be equipped with extremely low-pressure, tubeless tires, 10 ft high and 4 ft wide.

One man will operate the electric console at the front of the leading car. To steer, he will merely flip a switch to the left or right. Actually, only the two front wheels are steered by the operator; the other 50 will "track" automatically.

Pontiac's Economy Engine Taking 12 Percent of Sales

Pontiac reports its Tempest 420-E low-compression engine currently is taking 12 per cent of orders and the percentage is expected to go even higher.

Pontiac offered the economy V-8 engine as an option on 1959 models at no extra cost. Division general manager S. E. Knudsen says the engine gives 10 per cent better mileage and is designed to operate on regular grade gasoline, resulting in a 20 per cent operating economy.

The Tempest 420-E has a compression ratio of 8.6 to 1, compared to the standard V-8's compression of 10.5 to 1. Horsepower on the economy model is 215, compared with 330 and 345 hp on the 420-A engines.

Car Makers Urged to Step Up Exhaust Gas Control Studies

Automotive companies are urged by conferees on air pollution to press their studies of means to control car exhaust gas emissions.

The recommendation comes from the recently concluded National Conference on Air Pollution. Held in Washington, this first national meeting was attended by some 1,000 scientists, engineers, government personnel, and representatives of civic groups. It was sponsored by the U.S. Public Health Service.

Vehicle producers have been diligent in searching for ways to cut down automotive exhaust gases, the conferees were told. The bill for these studies has come to \$5 million in five years, Harry A. Williams, managing director of the Automobile Manufacturers Assn., pointed out.

Results are encouraging, Mr. Williams said, though actual cures for excessive exhaust fumes have not been found. Industry researchers have created some control devices which promise helpful results.

While exhaust gases were not blamed for all undesirable elements in the air, the conferees gave considerable attention to it. Charles M. Heinen, assistant engineer, materials laboratories, Chrysler Corp., commented on the need for more objective data on the automobile's part in air pollution.

Speaking during a panel discussion, he said: "I am convinced that the control of auto exhaust will reduce the air pollution problem in Los Angeles, but I am not convinced that reduction of auto exhaust emissions will have any effect on the problem in other cities."

W. M. Dorn, of the Los Angeles County Board of Supervisors, complained that automobile manufacturers are attempting to place the blame for air pollution on "misuse of automobiles by their owners." Cars coming off the assembly line need exhaust-gas controls built-in, he contended.

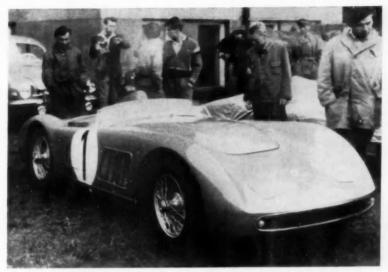
Materials from car exhausts are chiefly responsible for the Los Angeles smog, according to Dr. Leslie A. Chambers, research director, Los Angeles County Air Pollution Control District. Carburetor losses of gas vapors, when outside temperatures are at 95 to 100 F., are around 40 tons an hour in Los Angeles, he said.

Allis-Chalmers Will Buy S. Morgan Smith Company

Directors have approved a stock exchange which will give Allis-Chalmers Manufacturing Co. control of the S. Morgan Smith Co. of York, Pa. Under the plan, 1.1 shares of A-C will be exchanged for a single share of Smith capital stock.

S. Morgan Smith, founded in 1877, makes hydraulic turbines, valves, water handling equipment, axial flow pumps, marine propellers and other special machinery. It has two plants at York, one of 352,000 sq ft and a five-year-old plant of 95,000 sq ft.

A-C hopes to begin the S. Morgan



New Czech sports car is claimed to have top speed of 160 mph

Smith facilities and business by the beginning of 1959. The Pennsylvania firm had a record year in 1957 with sales of \$23.5 million and earnings of \$1.5 million.

Czech Sports Car Powered by Twin Overhead-Cam Engine

The Skoda factory at Mlada Boleslav, Czechoslovakia, has developed a new competition sports car that is claimed to have a top speed of about 160 mph.

The car is powered by a twin overhead camshaft version of the 66.4-cu in. engine used in the Skoda 440 sedan. The four-cylinder engine develops a maximum of 92 bhp at 7300 rpm with 9.5 to 1 compression. It has a wet-lined alloy block of 2.67-in. bore and 2.95-in. stroke rated at 40 bhp at 4200 rpm.

Combustion chambers are hemispherical with valves symmetrically inclined at an included angle of 90 deg.

Two double-barrel Jikov carbu-

retors and duplicate ignition systems are used. There are two spark plugs for each cylinder, each set having an individual magneto. These are directly coupled to the forward end of the camshafts, which are driven by the gear train.

The engine is placed well behind the front axle and it, together with the five-speed gearbox, is somewhat offset to the right of the chassis centerline.

The frame is of tubular construction, and body weight is kept down to 132 lb by use of resin-bonded fiberglass for all panels except the hood. All-independent suspension is by parallel links with longitudinal bars at the front and swing axles with angled torsion bars and inboard brakes at the rear.

Car's dry weight is 1280 lb, overall height 38 in., length 153 in., and width 56 in.

Rambler Exports Increase 10.3 Per Cent During '58

Rambler exports during the 1958 model year increased 10.3 per cent, a reversal of the trend that saw total industry exports drop by at least that much.

The biggest jump came in shipments of Rambler cars assembled in this country for overseas sale. According to W. H. Thoreson, director of automotive export operations for AMC, these shipments increased 49 per cent during the year.

Thoreson says the reason for Rambler's popularity is the greater emphasis placed on initial cost and operating expense of an automobile in foreign countries.



RUSSIAN RACER CLAIMS WORLD RECORD

Cigar-shaped Russian racer claims world record for its class (15.25-cu in.) with lap times averaging 110 mph. A tubular cockpit for reclining driver keeps height of Zvezda-6 down to 27½ in. Overall width is 39 in. and length nearly 15 ft.

NEWS AND AVIATION



Body on this truck can be raised or lowered for easy loading

Giant Earthmover Can Dig and Haul 130-Ton Loads

R. G. LeTourneau, Inc., unveiled a giant earthmover over 100 ft long that it says may revolutionize dambuilding and canal-digging methods.

Two huge buckets with a capacity of 130 tons are integral parts of the machine—they can load themselves separately and discharge their loads together or separately, depending upon the operation.

LeTourneau said the powerful earthmover was made possible by use of the firm's "electric wheel" system of propulsion. This system includes two 600-hp Diesel engines, which drive a-c and d-c dynamos under the hood. These dynamos furnish power to drive d-c electric motors geared directly to the rims of all eight wheels—and also to drive a-c motors in other parts of the machine.

The company said that a fleet of 86 of the new earthmovers could dig a canal the size of the Panama Canal in three years, working two shifts with 172 operators. To do the job in the same length of time using the best machines previously available, the company said, would require 299 earthmovers, 100 "pusher" tractors, and 798 operators.

German-Built Truck Has Elevator Body

Tempowerk of Hamburg, Germany, has developed a one-ton truck with an elevator body which can be raised or lowered for easy loading.

The body is supported by steel cables enclosed in the tubular structure at each corner. A single hydraulic ram provides the lift.

A control on the engine-driven pump gives infinitely variable regulation of height. Vertical movement of the body is unimpeded because of the front wheel drive, which eliminates the propeller shaft, and the rear wheel suspension, which consists of coiling springs and trailing arms hung outside the rectangular frame, giving a free space behind the vehicle's cab.

The vehicle, designated Tempo 500, is produced under license in the United Kingdom by Jensen Motors Ltd. The Tempo is powered by a standard British Motor Corp. 90-cu in. engine that develops 52 bhp at 4000 rpm. Drive to the front half-axles with constant-velocity joints is through a four-speed transmission combined with the differential.

Another British-built Tempo model is a crew-cabin pickup truck based on the same power plant but using a tubular backbone chassis with swing axles at the rear. This model seats six persons and has a drop-sided body.

Rise in Red's Rubber Imports May Be Key to Industry Growth

Intelligence agencies in Washington get a good clue to Russian industrial output trends from the Red's growing imports of rubber.

Wheeled vehicle production has grown considerably in Russia in the past few years, so far as can be determined by the West. This growth apparently is continuing this year, as indicated by expanded imports of rubber. Through August the U.S.S.R. had brought in more than 139,000 tons, as against 63,000 tons in comparable months in 1957.

The upswing in purchases of rubber is an apparent result of gains in Soviet industry generally, and in automotive and farm equipment fields especially. Best available estimates point to a 10 pct advance in over-all Russian production in the first half of 1958, compared to 1957.

Farm equipment sales, stimulated by prospects of record-high harvest, have made a notable rise. Tractordrawn mowers produced in the first six months this year topped those in the like period of 1957 by 130 pct. The automotive industry in Russia



Giant earthmover has two buckets to dig and haul 130-ton load



CANNED MOTOR PUMP

Seen through a set of cooling coils, a canned motor-pump with its own wrapping of coils is readied for Belgium's first atomic plant. Two of these pumps, each rated at 300 hp, are among the components Westinghouse Electric Corp. is building for the Belgian power reactor. Units will circulate 6250 gallons of water per minute through the primary loop of the reactor to extract its heat. Rotor and stator windings are "canned" in corrosion resistant jackets to keep out the pumped fluid which fills the motor covity.

is considered the principal factor in the rubber-import program. Russian vehicles exported to Indonesia have served to boost the Soviet importation of Indonesian rubber. Last year, tire production had reached almost 13 million units, compared to about 5 million units in 1955.

VW Executive Predicts 500,000 Import Sales

Volkswagen president Dr. Heinz Nordhoff says sales of imported cars in the U.S. should hit 500,000 units during 1959. VW will sell about 70,-000 cars and 30,000 trucks in this country in '59, according to Nordhoff.

The German automobile executive says his own company, because of current expansion plans, will increase production from 550,000 units this year too 650,000 in 1959 and 750,000 by the end of the following year.

Square D Reports 9-Month Net Income of \$4.2 Million

Square D Co. reported nine-month earnings of \$4.2 million on sales of \$68 million, compared with earnings a year ago of \$6.4 million on sales of \$78 million.

The electrical control firm reported capital expenditures of \$1 million during the period, down from recent years when Square D spent heavily for land, buildings, and equipment.



Aeronca Mfg. Corp. of Middletown, O., is negotiating a merger with Longren Aircraft Co., of Torrence, Calif., with the latter slated to become an Aeronca division.

Gates Rubber Co., of Denver, Col., is building a \$9 million tire manufacturing plant at Nashville. Tenn., which will employ more than 2000 workers.

American Metal Products Co. is now producing a new self-lubricated fabric bearing that it says is slated for use on at least one 1960 automobile. The automotive bearing, called Fiberglide, consists of a spherical ball stud around which a woven Teflon fiber socket is molded on assembly into a metal housing.

Meridan Metalcraft, Inc., Whittier, Calif., opened a new aluminum dip brazing facility for quantity production of aluminum assemblies—the largest of its kind in the West.

Central Foundry Div. of General Motors is casting over a million automotive front door hinges of malleable iron, replacing hinges made of rolled steel sections. The new hinges—used on all 1959 GM passenger cars—eliminate shearing and forming operations needed on rolled steel sections and are easier to machine, the division says.

A new magnesium sheet and plate alloy that does not need stress relief after welding has been developed by Dow Chemical Co. The alloy, ZE10A, contains zinc and rare earth metal, has a tensile strength of 38,000 psi; tensile yield, 28,000; and compressive yield, 26,000. Alloy is now in full production at Dow's Madison Div.

Michigan Tool Co. has developed a simple method of checking gears that eliminates the use of gage blocks, micrometers, verniers, and gear trains. The gear checker consists of a built-in optical system with 56x macroscope and graduate eyepiece to provide unreversed, right-side-up image of teeth; and a built-in electronic gage to record errors in teeth profile.

Air Force engineers have designed a thermoelectric generator that combines the thermocouple principle with a radioisotope power source. The hot junctions of the elements are thermally connected to a simulated power source and the cold junctions are electrically set up in series on the surface of the outer cylinder. When the heat of the power source levels offleaving a temperature difference between hot and cold junctions-a voltage (about 5 volts) is generated in the thermoelectric elements.

Bristol Aircraft Ltd. has produced a new type of glass-laminate structure consisting of two outer walls molded integrally with intermediate corrugations or cells. This is done by laying glass cloth in the molding tool and packing flexible wax formers wound with glass cloth tape between the two skins. After the resin is injected and allowed to cure, the tool is split and the molding post-cured in an oven, where the wax mandrels are melted out.

Goodyear Tire & Rubber Co. developed a solid industrial tire made of synthetic rubber that it says has up to four times the wearing qualities of conventional industrial tires. Made from Neothane, a cast polyurethane type rubber, the tires are designed for pallet roller wheels and steer wheels, and are now being produced on a pilot-plant scale.

A testing device that subjects materials to an explosive force equal to that of an atomic bomb is now in use at the Naval Civil Engineering Laboratory. Port Hueneme, Calif. The unit consists of a 20-ton pressure vessel mounted atop a 75-ton reinforced concrete pier. The test item is placed inside the steel shell and a firing tube in the shell is loaded with enough primacord explosive to produce the desired blast.

Information on the use of beryllium as a structural material in airframe and missile applications is contained in a report by the Defense Metals Information Center, Battelle Memorial Institute.

. . .

AVIATION MANUFACTURING



CONVAIR 880 ROLLS INTO FINAL ASSEMBLY

The first Convair 880 jet airliner is rolled into final assembly area at Convair Div.'s plant in San Diego, Calif. External items still to be installed are the horizontal tail assembly, tuselage doors, some sections of the wing leading and trailing edges. Ship is slated for factory rollout in December and will fly early next year.

McElroy "Highly Skeptical" Of Soviet A-Plane Story

The Defense Dept. stated that it does not know whether the Russians have successfully flown an atomicpowered airplane.

The statement was prompted by a published article in a national aviation magazine that said Russia is testflying a huge experimental nuclear-powered bomber.

The Department quoted Defense Secretary Neil H. McElroy as saying that he was "highly skeptical" of the story, but he conceded that "the Soviets may have a slight lead over the U.S. in this area."

One thing seems certain, according to Washington sources: the new Congress will make a strong attempt to step-up the U. S. nuclear aircraft program.

Lockheed Proposes New Design For Army VTOL Research Plane

Lockheed's California Di". has presented a new design to the Army for an advanced VTOL research plane.

The new plane would combine tiltwing and deflected slipstream features with conventional propellers, according to Lockheed engineers.

The aircraft would weigh less than 5000 lb empty, would carry a crew of two, and be powered by two T-53 Lycoming prop-jet engines of 960 hp each.

"The airplane would be the first

Army test bed that looks like an airplane, takes off and land like a helicopter, flies like a fighter and is capable of operating at tree-top level," the Lockheed announcement said.

Vertical lift would be achieved by tilting the wing, extending the flaps to deflect the slipstream downward, and placing the aircraft into a noseup attitude. The entire sequence would take place before the aircraft lifts off the ground.

Lockheed engineers said the plane could be used for observation, or as a command utility, air rescue, and ambulance aircraft.

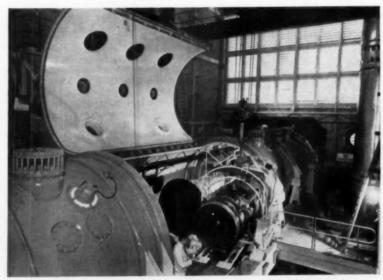
Two test bed planes could fly in less than a year from the time the Army gives Lockheed the go-ahead signal, the company reported.

Breech Calls for Bigger Role For Industry in Space Plans

A broader role for private industry in the nation's space programs is necessary, according to Ernest R. Breech, chairman of the board of Ford Motor Co.

Breech, speaking in New York recently, called for a "working partnership" between industry and government to insure leadership for the United States in space exploration. He said that private industry should share fully in the development programs.

"We must have competitive design thinking, the broadest possible base of development skills and experience,



ENGINE TEST PLANT SIMULATES MACH. 2.5 SPEEDS

Rolls-Royce engine test plant permits running big turbojets at simulated Mach 2.5 speeds and heights up to 70,000 ft. Power to two test cells—equivalent to 150,000 hp—supplies compressed air for engine intake. Pressures can be varied from 1 to 55 psi at temperatures from —90 C to +190 C. Pressures around the rest of the engine can be reduced to correspond with the selected altitude—down to ½ psi.

and a full integration of design and production technologies so as to permit efficient manufacture," Breech said.

Goodyear Designs Dynamometer To Test Plane Tires at 300 Mph

Goodyear Tire and Rubber Co. has designed an airplane tire dynamometer that it says can spin a tire from standstill to 300 mph in 18 seconds.

The machine will be capable of handling tire loads up to 70,000 lb and tire sizes from 16 in. to 6 ft in diameter, Goodyear said.

The dynamometer is designed to duplicate exactly landing and takeoff conditions under given loads and speeds. To simulate landing, the tire makes a "touch down" against a huge flywheel revolving at the speed of the plane for which the tire is being tested. Takeoff is simulated when the flywheel accelerates the tire from zero to takeoff speed.

Aircraft tires will be tested in special high-temperature ovens used in conjunction with the dynamometer. These heat tests are designed to simulate the temperatures produced at supersonic speeds.

The dynamometer will be powered by two electric motors and designed so that both ends of the motor shaft can be used as drivers. One side will drive a conventional flywheel with a test carriage on each side. The other end will drive a gear which in turn will drive — on opposite sides — two pinions on which tires will be mounted. A total of four test carriages or positions can be operated independently to any desired load or speed.

The new dynamometer is being built by the Adamson United Co. of Akron, O. It is scheduled to be installed in a new building at Goodyear's Akron plant early in 1959 and is expected to be operational by next July.

Allison Forms New Department To Develop Missile Products

A new advanced research and development department has been set up by Aeroproducts operations, Allison Div., General Motors Corp., to "investigate and make proposals on new products," it was announced.

Dan H. Jacobson, formerly chief of aerodynamics at the Vandalia operation, is head of the new unit, according to R. R. LaMotte, manager of engineering.

The new organization will delve into "products which have not previously been pursued actively by the Aero-products engineering effort," a company spokesman said.

Explorations of the new department will extend to such items as missile and space vehicle control systems, secondary power and other missile components, ordnance products, targets, etc.

In addition to Aeroproducts' current production on turbo-propellers for the Lockheed Electra, the firm also is making actuators and various ram-air driven accessories.

Convair to Continue Research On Atomic-Powered Airplane

Convair Div. of General Dynamics Corp received an Air Force contract for \$2,671,557 to carry out research on an atomic-powered airplane.

The contract continues AF studies at Convair's Fort Worth plant through March 1959.

August C. Essenwein, Convair vicepresident and manager of the Fort Worth plant, said the facility has been doing nuclear research work since 1951. In that time, the plant built the first airborne test reactor, which was carried on 47 flights aboard a modified B-36 bomber. Convair also built a ground test reactor, the first of its kind developed outside the Atomic Energy Commission, the company said.

Lockheed Gets Navy Contract For New Sub Detection System

Lockheed Aircraft Corp. has received an \$18 million Navy contract to develop and install a new submarine detection system on about 350 Neptune patrol planes.

Use of the new system will greatly improve detection of enemy submarines by making it possible to locate them at greater ranges, the Navy said. The contract covers a two-year period and will eventually amount to \$36 million. Delivery of the first planes to operating squadrons is scheduled for next month.

Solar to Build Huge Furnace To Handle Missile Fuel Tanks

Solar Aircraft announced plans to build a 60,000 sq ft engineering and research facility, and a huge furnace for heat treating and brazing missile components. Both facilities will be located on Solar's bayfront leasehold in San Diego. Calif.

The new furnace will be 31 ft deep and 15 ft in diameter, and will be almost entirely below ground. The shaft will extend below the water level of the adjacent bay.

The furnace will handle missile fuel tanks and other components up to 9 ft in diameter and 30 ft long. Temperatures of the 1000 kw unit will go as high as 1950 F, the company said.

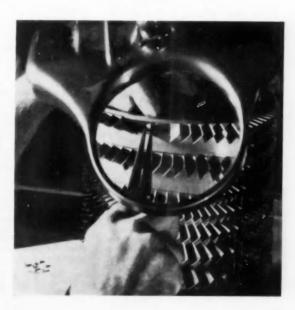
Solar also reported that net sales in the first half of the company's fiscal year ended Oct. 31, 1958, were \$31,198,400, compared with sales of \$43,328,300 in the like period last year.

Net earnings for the same period were \$815,700, compared with \$1,016,-400 for the previous year.

The company's backlog of unfilled orders was \$39,131,200 on Oct. 31, 1958. The backlog on July 31 was \$41,358,500 and at the same time a year ago, \$64,456,900.

ROTOR BALANCING

A lightweight metal slug is placed in the compressor rotor of a General Electric turboshaft engine to balance the rotor. This new balancing technique has cut rotor assembly time more than 50 per cent. Tiny slugs range in weight from 0.15 to 0.50 grams. Previously, rotors were balanced by a choice or substitution of blades. New method was developed by GE's Small Aircraft Engine Dept., Lynn, Mass.



MEN

IN THE NEWS



Borg-Warner Corp., Pesco Products Div.— M. Whitney Nesbitt was appointed vicepresident in charge of sales.

Chrysler Corp.—James W. Craft has been named director of organization.

Metal Improvement Equipment Co.

—Peter G. Lawrence was appointed sales manager.

American Bosch Arma Corp., American Bosch Div.—Barry J. Mc-Cormick was named manager of the Detroit Regional Sales Office.

Garrett Corp., AiResearch Industrial Div.—Richard Gunter and George Bransom were promoted to assistant division manager and sales manager, respectively.

Oakite Products, Inc.—Reginald R. Burns has been appointed director of purchases and William M. Boardman purchasing agent.

Joseph T. Ryerson & Son, Inc.— John W. Bodwell and Robert T. Harvey were appointed assistant general managers of sales.

Ford Div., Ford Motor Co.— Thomas F. Buchanan has become sales manager for the Davenport sales district.

Youngstown Sheet and Tube Co.— Myron S. Curtis has retired as assistant to the president.

Continental-Diamond Fibre Corp.— E. H. Baugh was appointed district sales manager in the Cleveland, O., area, succeeding George H. Shima, who will direct western sales with headquarters in Los Angeles.



Timken Roller Bearing Co.—J. R. Splitstone was named assistant general manager of the Automotive Div. This appointment was omitted in the Nov. 15 issue of AUTOMO-TIVE INDUSTRIES.



The state of the s

AC Spark Plug Div., General Motors Corp.—Dr. Wilfred Bychinsky was named chief engineer of automotive products, succeeding Leo W. Tobin, Jr., who has been made manager of Milwaukee operations.

General Motors Corp., Delco Radio Div.—Martin J. Caserio is now general manager.

U. S. Steel Corp., American Steel & Wire Div.—Charles P. Greenlee has been named manager, manufacturers' products sales, with headquarters in Cleveland; and Edmond J. Walsh becomes manager of sales in the Detroit office.

Allis-Chalmers Mfg. Co.—Leo E. Engleson was named manager of the Rochester district by the Industries Group.

Ford Div., Ford Motor Co.—Guy Hamilton, Jr., was appointed executive assistant to the general sales manager.

Huck Mfg. Co.—Ray V. Clute has been named assistant to the vice-president, sales; and Richard A. Villacres was made western division sales manager.

Borg-Warner Corp., Byron Jackson Div.—E. S. Dulin was elected chairman of the board, and Andrew W. Rose succeeds him as president and chief executive officer.

Molded Fiber Glass Co.—Wallace J. Feasler is now sales manager.

Reynolds Metals Co.—L. dufont Yager has been appointed to direct distributor sales operations.



Clearing Machine Corp.—Gordon M. Sommer was named vice-president in charge of engineering.



Chrysler Corp., New Process Gear Div.—Alvin T. Hanson, Jr., has been named manager.

Minneapolis - Honeywell Regulator Co., Brown Instruments Div.—John B. Moxness was made market manager for pyrometer supplies and accessories.

Necrology

Harvey W. Harper, 80, founder and chairman of the board of Tung-Sol Electric, Inc., died Nov. 23, at Belleair, Fla.

George E. Gernon, 87, secretary of Gisholt Machine Co., died recently, at Madison, Wis.

B. David Schultz, 76, a founder of the old Houde Engineer Co., died Nov. 21, at Buffalo, N. Y.

E. B. Gleason, president of Gleason Works, Rochester, N. Y., died Nov. 21.

Thomson Kingsford, 70, general manager of the Kingsford Foundry and Machine Works, died Nov. 20.

James Inglis Simpson, 73, chairman of Dunlop of Canada Ltd., died Nov. 14, at Toronto, Ont.

Ben M. Asch, 82, founder and board chairman of Automotive Affiliated Representatives, died Nov. 21, at Freeport, N. Y.

Bernard Lesniewski, 62, a retired purchasing agent for Kearney & Trecker Corp., died Nov. 18.

Robert B. Ganley, 44, vice-president and general manager of Syracuse Heat Treating Corp., died Nov. 18.



There is no substitute for Stainless steel

in outer space

From the intense cold of outer space to the heat of a jet engine, Stainless Steel is the one metal that will stand up. In rockets, missiles and supersonic aircraft, Stainless Steel resists heat, friction and corrosion, has a high strength to weight ratio and maintains its structural integrity under the most severe conditions.

Specify McLouth high quality sheet and strip Stainless Steel. McLouth Steel Corporation, Detroit 17, Michigan.

Mc Louth Stainless Steel

Tung-Sol 12-Volt Remote-Reset Circuit Breakers



BURNED-OUT ACCESSORY MOTORS AND WIRING PERMANENT BREAKER DAMAGE **RUN-DOWN BATTERIES**

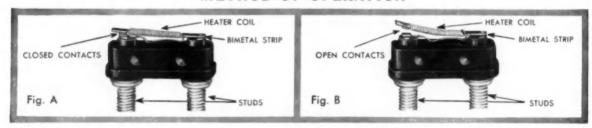


Standard Mounting Brackets

The Tung-Sol remote-reset type circuit breakers lock open, instead of continuing to pulsate, when the circuit is overloaded or shorted. When the cause of the overload or short is removed. the breaker is then remotely reset. It reactivates the circuit within 30 seconds.

Available in 6, 10, 15, 20, 30 and 40 amp. ratings, in a choice of two mounting brackets. Tung-Sol Remote-Reset Circuit Breakers are used in a wide variety of automotive applications. For further information write Engineering Department.

METHOD OF OPERATION



NORMAL CONDITIONS

When circuit conditions are normal, the current flows thru the strip which is attached across breaker studs. When contacts are closed, the heater coil is short circuited and has no heating effect. (Fig. A).

EMERGENCY CONDITIONS

When a short circuit or overload occurs, the increased current causes strip to bend away from contacts. (Fig. B). When the contacts part, the coil is automatically inserted in the circuit.



ELECTROSWITCH DIVISION (TUNG-SOL ELECTRIC INC., NEWARK 4, N. J.

SALES OFFICES: ATLANTA, GA.; COLUMBUS, OHIO; CULVER CITY, CALIF.; DALLAS, TEXAS; DENVER, COLO.; DETROIT, MICH.; IRVINGTON, N. J.; MFLROSE PARK, ILL.; NEWARK, N. J.; PHILADELPHIA, PA.; SEATTLE, WASH. CANADA: MONTREAL, P. Q.

The BUSINESS PULSE

Labor Disputes Have Been One of the Principal Reasons for the Slower Rate of Gain in Over-All Industrial Production. Retail Sales During October Almost Equalled the Peak of Summer in 1957

The fall business period was characterized by a slower rate of gain in some key indicators, but this in itself does not warrant the conclusion that the recovery movement is grinding to a halt. Allowance must be made for the industrial disputes which hampered operations in various hard-goods industries, including the automotive. And it must also be remembered that it is typical for any recovery movement to moderate somewhat as it advances beyond its initial stage. The autumn record, if judged with these facts in mind. does not appear too disappointing.

Costly Work Stoppages

In terms of the number of workers involved and man-hours lost, recent work stoppages have been worse than anything experienced since the middle of 1956, when the economy was hit by a major steel strike. In addition to disrupting automobile assemblies, labor disputes have recently curtailed production and depressed income payments in the machinery, electrical machinery, glass, and fabricated metals industries.

These industrial disputes seem to be the main reason for the slower rate of gain during the autumn in over-all industrial production. Seasonally adjusted, the Federal Reserve index rose by only one point in October for the second successive month. By contrast, in the period from April to August its monthly advance averaged 2½ points. The failure of personal income to continue its previous uptrend in October was also traceable to these disputes.

This Survey, published for the readers of automotive magazines exclusively in AUTOMO-TIVE INDUSTRIES, has been prepared by the Guaranty Trust Company of New York

Retail Sales Rise

In areas where the impact of strikes was not direct, autumn experience was more favorable, providing reassurance that the recovery movement still possesses much underlying strength. Retail sales were rather encouraging on the whole, rising in October to a level almost equal to the peak reached in the summer of 1957. Construction expenditures persisted in their uptrend, with foreshadowing data pointing to still further gains in the months ahead.

One of the brightest features of the autumn period was the continued improvement in the flow of new orders to manufacturers. New orders, as well as sales, rose more than seasonally during both September and October, extending the trend that got under way last spring. As a consequence, backlogs of unfilled orders held by manufacturers have stablized, enabling management to look ahead and plan with more confidence. Particularly important is the fact that the recent buoyancy shown by new orders stems from new civilian demand, rather than from the more volatile type of military ordering which was the chief element of expansion last spring.

Lower Inventories

Besides pointing to a continuation of the rise in factory output, the improvement which has taken place in manufacturers' business suggests that pressure for further inventory liquidation is rapidly abating. Relative to both sales and new orders, inventories at the end of October were lower than a year earlier and about as low as at the ends of the periods of liquidation in both 1949 and 1954.

Significantly, inventory book values in manufacturing showed virtually no change during October, after about a year of steady reduction. With liquidation apparently over and with basic conditions still improving in manufacturing, there would seem a good possibility that the economy may be about to enter a phase of inventory accumulation. If this is so, it will help to sustain the recovery movement.

Capital Spending

Latest report on businessmen's plans for capital spending provides further confirmation that the previous sharp decline in this area is over. As of October, according to the report, businessmen were planning a slight increase in next year's investment outlays. If additional improvement occurs in business, as seems likely, they may very well upgrade plans further, but it is probably unreasonable to anticipate a really vigorous rise in this area, considering the generous amount of plant capacity now idle.

INDUSTRY STATISTICS · ·

WEEKLY U. S. MOTOR VEHICLE PRODUCTION

As reported by the Automobile Manufacturers Association

Make	W	eeks Ending	Year t	Year to Date	
William	Nev.	29 Nov. 22	1958	1957	
PA	SSENGER CA	R PRODUCT	TION		
mbler	6.3	96 5.620	183.787	100.087	

PASSENGE	R CAR	PRODUCTION		
Rambler	6,396	5,620	183,757	100,087
Total-American Motors Corp.	6,396	5,620	183,757	100,087
Chrysier De Soto Dodge Imperial Plymouth	1,649 1,380 4,323 500 9,823	1,107 3,786 466	45,539 33,969 107,471 11,651 341,885	111,336 111,911 276,599 35,653 612,782
Total-Chrysler Corp	17,656	18,075	540,515	1,148,281
Edsel Ford Lincoln Mercury	1,376 28,326 672 4,397	34,266 654	18,750 898,434 22,261 106,324	52,489 1,395,950 34,300 256,655
Total-Ford Motor Co	34,771	41,460	1,045,769	1,739,374
Buick Cadillac Chevrolet Oldsmebile Pontiac	9,313 3,382 34,487 8,925 7,125	3,942 38,432 10,107	213,337 108,234 1,067,526 265,178 180,967	365,689 140,445 1,360,689 350,029 306,267
Total—General Motors Corp	63,232	70,499	1,835,242	2,525,119
Packard	1,020	3,003	1,723 40,873	4 873 63,656
Total-Studebaker-Packard Corp	1,020	3,003	42,596	68,529
Checker Cab	71	112	2,776	3,715
Total All Passenger Cars	123 145	138 859	3 650 655	5 585 105

TRUCK AND BUS PRODUCTION

Chevrolet G. M. C.	7,249 1,686	9,447	240,313 54,615	322,945 63,578
Diamond T	100	153	5,261	5,290
Divco	56	70	2,688	2,607
Dodge and Farge	1,866	1,599	51,578	71,621
Ford.	6,961	8,238	216,291	312,532
F. W. D.	13	20	1,138	977
International	******	*****	79,796	111,080
Mack	232	289	12,873	15,863
Studebaker	92	306	9,245	12,743
White	206	416	15.696	17,381
Willys	2.125	2.442	82.837	69.084
Other Trucks	50	60	2,640	3,860
Total—Trucks	20,645	24,809	774,971	1,009,561
Ruses	25	45	2.807	3,625
			8,001	0,000
Total-Motor Vehicles	143,825	163,713	4,428,433	6,596,291

RETAIL CAR SALES BY PRICE GROUPS*

NUMBER OF CARS

	19	58	19	67		
Price Group	Units†	% of Total	Units†	% of Total		
Under \$2,000 \$2,001 to \$2,500 \$2,501 to \$3,500 Over \$3,500	3,679 188,834 67,635 24,836	1.29 66.27 23.73 8.71	1,361 302,885 135,626 35,452	.29 63.72 28.53 7.46		
Total	284,984	100.00	475,324	100.00		
	Nine Months					
	19	58	19	57		
Price Group	Units†	% of Total	Units†	% of Total		
Under \$2,900 \$2,001 to \$2,500 \$2,501 to \$3,500 Over \$3,500	36,104 2,085,179 790,767 300,435	1.12 64.91 24.62 9.36	22,548 2,816,828 1,266,814 357,684	.51 63.10 28.38 8.01		
Total	3,212,485	100.00	4,463,874	100.00		

DOLLAR VOLUME OF SALES

September

	1958		1957	
Price Group Under 2,000 \$2,001 in \$2,500 \$2,501 to \$3,500 Over \$3,500	\$6,508,942 441,764,715 194,073,966	87 58.75 25.81 14.57	Dollars 9 \$2,078,247 681,776,150 383,085,848 185,201,623	.17 54.45 30.50 14.79
Total	\$751,938,233		\$1,252,121,868 Months	100.00
	1958		1957	
Price Group	Dollars 9	6 of Total	Dollars 9	of Total
Under \$2,000 \$2,001 to \$2,500 \$2,501 to \$3,500	\$64,238,470 4,878,450,662 2,247,475,272 1,331,988,477	.75 87.25 26.37 15.63	\$40,424,140 6,330,738,629 3,577,393,263 1,744,784,320	.35 54.14 30.59 14.92
Total	\$8,522,152,881	100.00	\$11,693,340,352	100.00

^{*—}Calculated on basis of new car registrations, as reported by R. L. Polk & Co., in conjunction with advertised delivered price at factory of four door sedan or equivalent model. Does not include transportation charges or extra equipment.

—New registrations of American made cars only. Does not include imported foreign cars.

REGISTRATIONS OF FOREIGN CARS

First Ten Months*

1958		1957	
Volkswagen Renault English Ford Flat Hillman All Others	64,392 37,009 26,551 16,368 14,437 142,234	Volkswagen Renault English Ford MG Metropolitan All Others	52,573 18,127 13,717 11,613 10,187 60,709
Total	300,991	Total	166,926

October.

1958 NEW REGISTRATIONS

Based on Data from R. L. Polk & Co.

Ton Months !

Arranged in Descending Order According to the Ten Month 1958 Totals

NEW P	ASSENGER	CARS
-------	----------	------

	October	September	October	1.011	(Airtinis)
Make	1958°	1958	1957°	1958	1967
Chevrolet	60,383	88,118	113,129	1.035.023	1,207,483
Ford	71,656	67,995	116, 154	806,524	1.258.257
Plymouth	30,448	29,118	42,337	330,166	520,947
Oldsmobile	17,672	16,695	24,432	248,818	310,285
Buick	19,113	16,297	24,183	208,944	331.033
Pontiac	13,579	13,705	23.832	183,324	272,865
Rambler	18,668	11,208	7.412	141,001	73,074
Mercury	9,428	10,065	19,750	114,722	231,896
Dodge	12,696	9,631	20,216	112,979	224,372
Cadillac	6,077	7.782	10,500	101,883	118,404
Chrysler	3,805	4,287	8,300	50,329	91,362
De Soto	3,511	3,402	8,307	40,741	89,595
Studebaker	2,538	2,864	4.867	32,665	52,857
Edsel	1,862	1,929	8,216	30,519	15,670
Lincoln	1,535	1,665	2,601	22,029	30,419
Imperial	837	886	2,197	12,209	28,438
Metropolitan	1.217	1,131	994	10,403	10,090
Packard	153	189	250	2,429	4.762
Misc. Demestic	156	144	1.082	2,559	16,692
Foreign	36,951	38,015	20,551	290,588	154,844
Total-All Makes	321,285	321,106	489,310	3,777,888	5.043.345

NEW TRUCKS

	0-1-1	Controlog	October	1 011 14	iumus i
Make	October 1958°	September 1958	1957°	1958	1957
Chevrolet Ford. International G. M. C. Dodge Willys Truck	16,403	19,416	22,929	204,509	250,126
	15,681	18,116	27,676	168,148	237,728
	8,408	8,073	8,956	74,146	80,923
	4,777	5,218	5,035	45,409	52,717
	2,221	2,672	3,819	29,940	40,113
	1,802	1,256	1,335	10,997	12,385
Mack	1,197	1,131	1,254	9,999	11,272
White	1,089	961	1,173	9,868	12,806
Willys Jeep	875	817	632	5,667	6,389
Studebaker	217	298	433	3,446	8,683
Dlamend T	294	226	327	2,455	2,892
Divce	208	167	231	1,818	2,256
Breckway Kenworth Peterbitt F. W. D. Misc. Domestic Foreign	108	106	80	752	601
	85	117	73	688	898
	45	36	37	349	432
	34	22	37	320	390
	56	89	84	659	730
	2,936	2,970	1,636	22,731	11,863
Total-All Makes	58,234	61,690	75,747	591,901	729,207

^{*} Doos not include reports from Oregon for October.

[†] Includes reports from Oregon through June only.

WHERE EQUIPMENT FAILURE

Spells Disaster



Rocketing down a mountain ski run is no place to snap a strap! In fact, any failure of equipment in this action-packed sport can spell disaster — just as does any failure in automotive suspension.

Like the experienced skier, the prudent designer and engineer rely on time-tested and proven equipment to avoid disastrous failures. That's why the dependability of Burton springs is so important . . . why they are so widely used.



AUTO SPRING CORP.

. . . Vital Support for the Automotive Industry . .

WESTERN AVENUE AT FORTY-EIGHTH STREET
CHICAGO 32, ILLINOIS





Let Burton engineers, backed by modern equipment and scientifically controlled methods, solve your spring suspension problems.

AIRBRIEFS

By David A. Partridge

Cancellation Legacies

Although not always apparent to Mr. U. S. Taxpayer, all is not lost when a major aircraft or missile project is halted in the middle of its development. Valuable information is obtained from every cancellation that benefits many other projects and their development is hastened by scientific findings made in the cancelled weapon.

For example, a long-range missile program was cancelled by the Air Force more than a year ago. The guidance system developed for this missile was the same system of navigation that made the voyage of the nuclear-powered Nautilus under the North Pole possible. The same system is being applied to other missiles, a hypersonic fighter and similar military programs.

A modification of an existing rocket engine was accomplished for the same cancelled missile and this engine was utilized in the vehicle that put the Explorer Satellites into orbit around the earth.

The configuration, or outline, of the missile proved excellent for long range, high altitude supersonic flight. And this same knowledge is being applied to a Mach 3 chemical bomber and an advanced interceptor for the Air Force. Another contribution to aerodynamics was verification in flight of the "piggy-back" theory of missilebooster combinations, wherein the booster is mounted parallel to the missile. A further high speed flight contribution was progress in solving heat problems encountered in the area of three times the speed of sound.

New materials and manufacturing techniques were also gained from this same cancellation. The advanced design forced development of high-strength materials resistant to heat yet with minimum weight. The developers also came up with a method to prestretch stainless steel sheet and give it a low temperature heat treatment to obtain the required strengths.

All of these developments are being used today in other weapon systems under development and in production.

Employment Gains Slightly

Aircraft and parts industry employment gained in August to 753,-800 over the revised employment figure of 751,200 workers for July, according to the latest report of the Bureau of Labor Statistics.

Employment is expected to level off at about 750,000 workers for the rest of the year. June employment was the first reversal of a declining employment since it first started to drop in April, 1957.

Management Responsibilities

Top management in the aircraft and missile industry faces real problems. The preferences of their single big customer—the Government—place extreme management responsibilities on industry leaders. Their decisions to invest huge funds in a particular project could be either profitable or devastating—depending on the requirements of the Government.

In the "off-the-shelf purchasing" policy developed by the services, the service states a requirement for a certain type of aircraft or weapon system but there is no safe bet that an order will be given once the projects is developed. There is always the possibility that the requirement could be severely cut or

halted altogether. At any rate taxpayers are real winners as under this system of wide open competition only superior products are acceptable.

Complete Aircraft And Aircraft Engines

According to the Bureau of the Census and the Civil Aeronautics Administration, Dept. of Commerce, 399 complete civilian airplanes having a value of \$24.4 million and a total airframe weight of 855,200 lb were shipped during September, 1958.

During the same period 757 reciprocating type engines valued at \$3.3 million and totaling 213,000 hp were shipped.

Brief Air Briefs

U. S. aircraft makers hold 85 per cent of the orders for jet aircraft placed by all carriers for delivery through 1961-Tolerances of missile guidance systems are so close that assembly workers are dressed in surgical type clothing to prevent dust from damaging delicate components-The cooling system of a supersonic bomber does the job equivalent to a 160-ton-a-day ice making machine-A single rocket engine used in guided missiles produces enough power to equal that of 35 locomotives-Montana ranks Number 1 in aircraft ownership with 1.4 aircraft per thousand people. The other five leading states having one or more aircraft per thousand are: Nevada, Wyoming, North and South Dakota and Idaho -Over one half of all the active civil aircraft registered with the CAA were built over 10 years ago. The number flying, which were built before 1948, total over 37,055.

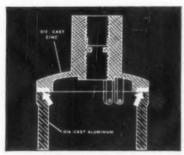
Technical data for gasket design and selection

NUMBER EIGHT

Avoiding electrolytic corrosion between flanges of dissimilar metals

When a joint is composed of dissimilar metals, the likelihood of electrolytic corrosion between flanges is greatly increased. In such cases, corrosion has been traced to plant fiber gaskets with glue-glycerine binders. Glue-glycerine binders are hygroscopic. The moisture accumulated in the gasket permits electrolytic action between dissimilar metals and results in corrosion.

A manufacturer of small gasoline engines was recently faced with this exact problem. Corrosion was attacking the aluminum float bowl and zine float bowl cover, even on brand-new carburetors. Corrosion stopped when the gasket specification was changed to Armstrong CN-705 Accopac.



In this assembly, conventional plant fiber gasket permitted electrolytic corrosion between die-cast zinc and aluminum flanges. Switch to Accopac CN-705 eliminated this problem.

The non-hygroscopic binder in Accopac is synthetic latex. Since it does not attract moisture, corrosion cannot take place.

Accopae gasket materials are compressible, crush resistant, and will not shrink or dry out, even in alternately wet and dry applications. And because of their homogeneous nature, Accopae materials die-cut with sharp, clean edges.

Yet with all these advantages, Accopac costs less than materials of comparable quality. For more information about the advantages of Armstrong Accopac gasket materials, send for a copy of our bulletin IND-915,

Environmental factors in the selection of resilient gasket materials

In selecting a resilient gasket material, consideration should be given to certain conditions related to the internal and external environment of the gasket, These include such things as corrosion of flanges, the possibility of attack by fungus or ozone, and sticking of the gasket.

Flange corrosion. This can be caused by certain ingredients in the gasket, and it can also be the result of electrolysis between flanges of dissimilar metals. Both types of corrosion are usually associated with plant fiber gaskets that use glue-glycerine binders.

These corrosion problems can be avoided with Armstrong Accopac gaskets. Accopac materials have non-extractable synthetic latex binders which will not react corrosively with the contained fluid. These binders are also non-hygroscopic and will not encourage electrolytic action.

Gasket sticking. This is objectionable when a joint is subject to frequent opening and rescaling and also where there is risk of damage to the flange when the gasket must be cut away.

Sticking is encountered most often where rubber-containing gaskets are used at ambient temperatures of 300° F, or above. It can be controlled or eliminated by coating the gasket with a release agent such as graphite.

Sticking is not always an undesirable effect. In some cases, it acts to enhance the efficiency of the gasket.

Fungus attack. Certain atmospheric conditions favor the growth of mold and fungus, particularly on cork compositions and the more "corky" corkand-rubber gaskets. This problem can usually be anticipated and can be prevented by the use of fungicides on the gasket.

A new Armstrong material—Uniphase Cork—is inherently fungusresistant and can be used safely where fungus attack may occur. Ozone attack. Ozone will attack and deteriorate some rubber and cork-and-rubber gasket materials. The extent of the damage is related to the concentration of the gas and the amount of stress on the gasket—with higher stress inducing more severe attack.

Among rubber and cork-and-rubber compositions, those using butyl as the base polymer offer the best resistance to ozone.





These samples of cork materials were innoculated with fungi in a standard test. Fungus attack on conventional cork composition is shown at left, Armstrong Uniphase Cork at right has special binder which makes Uniphase fungus resistant.

Where cork-and-rubber gaskets are attacked by ozone, it may be possible to substitute Armstrong Uniphase Cork. This material has many of the characteristics of cork-and-rubber, but it is completely resistant to ozone.

A more complete discussion of the environmental factors that affect gasket selection and performance is contained in the Armstrong Gasket Design Manual. Write for your copy to the address below.

For your copy of Gasket Materials catalog or new Gasket Design Manual, write to Amstrong Cork Company, Industrial Div., 7112 Imperial Avenue, Lancaster, Pa.



Armstrong GASKET MATERIALS

. . . used wherever performance counts

News of the

MACHINERY INDUSTRIES

- By Charles A. Weinert -

Machine Tool Sales Turned
Upward in October with
a Volume Representing the
Highest this Year. Tax Depreciation Allowance Receives Attention at Meeting of Tax Institute

Machine Tool Sales Up in October

Indicative of better things to come, machine tool sales during October turned sharply upward. Net new orders for metal-cutting-type machines amounted to \$28.45 million—compared to \$20.1 million in September, and \$22.2 million average for the first nine months.

Purchases of metal-formingtype machine tools likewise were higher in October, totaling \$8.55 million—versus September's \$8.0 million and the nine-months' average of \$7.0 million.

Taken together, makers of both types of machines booked \$37.0 million net in October—the best month of the year.

The accompanying table presents the 1958 record up to the end of October—on shipments, as well as on net new orders.

In releasing these latest business statistics, Ludlow King, executive vice-president of the National Machine Tool Builders' Association, commented as follows:

"While the improvement in business was not uniform throughout the industry, the upturn points toward the expectation of increased sales in 1959 over 1958. A thorough analysis of economic and capital goods factors indicates October might well be the upward turning point following the past 10 months' depression."

Tax Experts View Depreciation Policies

The opinions and recommendations of industry representatives having to do with depreciation, for tax purposes, of plant and equipment were aired at a recent conference. It was made evident there are two major fields in which depreciation reform is felt to be essential for the welfare of American industry. One is a provision to compensate for the effects of inflation. The other, a formal provision in the Code to adequately recognize technological obsolescence.

The occasion, in point, was a symposium sponsored by the Tax Institute on the overall subject of "The Impact of Taxation on Management Responsibility—Depreciation and Compensation." It was held at Princeton, N. J. on November 20-21. The 14 speakers and members of the audience were representatives of Government, accounting firms, and industry, many of whom are specialists on tax matters.

Joel Barlow, Washington tax expert and consultant to the machine tool industry, was one of the speakers. He said the consensus seemed to be that "unless the old Bulletin F physical life concept is relegated to the ash heap, there will be a continuing diminution of investment in productive facilities." And that "less investment means even more obsolescence in our national industrial plant...which, in turn, means less productivity, less income, less revenue, more inflation, and finally loss of our markets."

On the other hand, Mr. Barlow implied that management was not without fault. He said "a very considerable segment . . . is not claiming the depreciation available to it under the new methods provided in the 1954 Code." Also that "management has very largely ignored the Commissioner's invitation under Bulletin F to . . make a case for shorter depreciable lives by establishing technological obsolescence." He did say "the aircraft, automobile and steel companies have moved up."

The basic subject assignment of this speaker was to present man-(Turn to page 58, please)

METAL CUTTING and FORMING MACHINE TOOLS

New Orders, and Shipments—By Months, 1958

(Millions of Dollars)

	N	et New Orde	rs		Shipments	
1958	Cutting	Forming	Total	Cutting	Forming	Total
Jan.	\$19.30	\$7.55	\$26.85	\$47.75	\$10.05	\$57.80
Feb.	22.80	5.50	28.30	38.50	9.55	48.05
Mar.	29.45	6.70	36.15	45.85	8.30	54.15
Apr.	22.90	5.40	28.30	40.20	10.70	50.90
May	21.90	6.15	28.05	37.60	12.50	50.10
June	23.05	9.05	32.10	35.45	10.05	45.50
July	20.90	5.65	26.55	23.20	6.50	29.70
Aug.	19.25	9.05	28.30	23.15	6.65	29.80
Sept.	20.10	8.00	28.10	27.20	7.70	34.90
Oct.	28.45*	8.55*	37.00*	32.65*	8.50*	41.15*
10 mos.	228.10*	71.60*	299.70*	351.55°	90.50*	442.05*

* Preliminary.

Source: National Machine Tool Builders' Assn.

Any quantity...type...size...

CASTINGS GRAYIRON STEEL

SPECIAL PROPERTY
GENERAL PURPOSE
HEAT-TREATED
CENTRIFUGAL
INTRICATE

uniform high quality at low cost...

Name your castings, CWC can produce them whether you need a truck or a trainload. We keep costs down with totally mechanized facilities. We peg our quality high, and keep it there, with advanced scientific methods. From metallurgical research to production pouring, CWC is your *complete* source for castings that machine easier, wear longer.

For an idea of our scope and how we can help you improve your product while cutting costs, write for our booklet, "One Source."

Campbell, Wyant and Cannon FOUNDRY COMPANY
DIVISION OF TEXTRON INC.

MUSKEGON, MICHIGAN

SIX FOUNDRIES LOCATED IN MUSKEGON, LANSING AND SOUTH HAVEN, MICHIGAN... READY TO SERVE YOU!



YEARS OF PROGRESS in better foundry methods . . . in wider use of castings



PRODUCTION EQUIPMENT

FOR ADDITIONAL INFORMATION, please use reply card at back of issue



Brown & Sharpe 618 Micromaster is designed for rapid production of highly accurate surface grinding of small and medium sized work. A ¾ hp motor drives the gear pump with needle bearings for supplying oil to the hydraulic system. Machine lubrication is automatic. Weight of the hydraulic machine is 2500 lb.

Machine for Surface Grinding Small-Medium Sized Work

THE 618 Micromaster is designed for rapid production of highly accurate surface grinding of small and medium sized work and is available in three basic models.

Unit construction permits all machines to be assembled to individual requirements-there are over one hundred combinations of spindles, spindle drives, locations of handwheels, etc. The machine grinds work

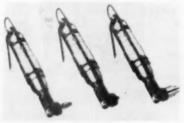
to 6 in, wide and 18 in, long, Using a full size 8 in. wheel with the vertical adjustment handwheel located on the bed, work to 14 in. high can be handled; with the handwheel on the upright, the maximum work height is 12 in. Extra vertical capacity parts increase these capacities to 18 and 16 in. respectively. Brown & Sharpe Mfg. Co.

Circle 30 on postcard for more data

Close Quarter Air Tools

NEW series of air tools is designed for drilling or assembly operations in close quarters, The angle drills, nut setters and screw drivers are tailored for minimum clearance applications in the assembly of many products, including industrial machinery.

They range in weight from 21/4 to 3% lb, and feature sturdy construc-



Gardner close quarter air tools

tion with ball bearings. Bevel gears and spline drives are used.

Each tool is available in five sizes with speeds ranging from 3200 rpm for smallest sizes to 450 rpm for the largest size. Basic motors used in the three tools are identical. Gardner-Denver Co.

Circle 31 on postcard for more data

Feed Rate Indicator

A FEED rate indicator powered by 110 vac is available from National Automatic Tool Co., Inc. The device makes it easy to gage forward and reverse feed rates of machine tool components. It has a range of 0 to 50 ipm over four inches of travel.

The indicator consists of a pickup component, and a control component, both housed for carrying in a single 91/2 by 61/2 by 41/2 in. case. For checking feed rates, the pickup is mounted on a machine way or slide by permanent magnets in its base, and the feed rate is read directly from a dial on the control component, which is light enough to be held in the hand.

Circle 32 on postcard for more data

In-Line Transfer Machine

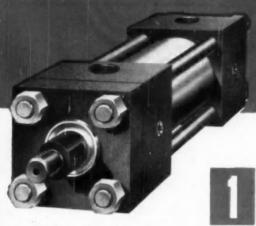
SNYDER transfer machine utilizes full automation techniques to mill die-cast aluminum pistons to precise weight specifications at a rate of 600 per hour. The machine is essentially an electrically controlled, hydraulically operated, in-line transfer machine using a rotating finger type transfer mechanism, and consistently mills pistons to a precision weight tolerance of plus or minus two grams.

The rate of production is made possible by using full automation techniques in combination with static automation devices and an electrically controlled servo valve mechanism. This mechanism positions a wedge stop for the milling cutter positioning without returning to a fixed reference point between machining operations. Snyder Tool & Engineering Co.

Circle 33 on postcard for more data (Turn to page 78, please)

SEAL FAILURE MEANS CYLINDER FAILURE

Petroleum base, fire-resistant and special hydraulic fluids cause distortion and rapid deterioration of the seats currently used in many hydraulic cylinders, resulting in costly repairs and cylinder failure. (Seals made of synthetic rubber are not compatible with even 50% of available commercial petroleum base fluids and the life of such seals is materially reduced at operating temperatures above 150° F.)



Request Bulletin JM-104N for complete data plus helpful charts on column strength, cylinder forces, factors of safety, acceleration, pipe pressure losses, etc.





HYDRAULIC CYLINDERS

FOR UNLIMITED SEAL LIFE!

ALL TEFLON* SEALED Against External Leakage

TEFLON is impervious to all known hydraulic fluids, including all fire-resistant and special types—and withstands temperatures from —100°F. to plus 450°F.

TEFLON SHEF SEAL AT TUBING ENDS

No blind assembly. Is

Shear-proof

Heat-proof

Extrusion-proof

Fluid-proof

TEFLON SEALS ON PISTON ROD AND BUSHING

Teflon rod flange seal requires no adjustment. Teflon bushing seal is shearproof. Teflon wiper keeps dirt

TEFLON SEALS ON BALL CHECK AND ADJUSTING SCREW

Non-protruding, selflocking, cushion adjusting screw interchangeable with ball check for easy access.

2

CASE-HARDENED CHROME PLATED PISTON RODS

Provide foolproof protection against seal failures resulting from rod damage. The Miller case-hardened rods (50-54 Rockwell C) give practically complete immunity to damage from hammer blows, wrench-dropping, mishandling, etc. The hard chrome plating over the case-hardened rods protects against scratch-damage and rust.

AVAILABLE IN TWO TOP QUALITY LINES

JOB-RATED

PRICE SAVINGS OF 27% OR MORE!

19 mounting styles, all strokes, cushioned and non-cushioned. Large selection for immediate shipment.

BORE	SEVERE OPERATING CONDITIONS	OPERATING CONDITIONS	PRICE OVER STANDARD 2000-3000 PSI CYLINDERS
11/2"	1500 PSI	2500 PSI	27%
2	1500	2500	27%
21/2	1000	1500	28%
31/4	1500	2500	32%
4	1000	1500	35%
5	800	1200	37%
6	800	1200	43%
8	500	800	50%
10	500	800	71%
12	500	800	76%
14	500	800	Not Available in 2000-3000 PSI

POWER-PACKED

Model "H"

50% More Power Per Cylinder Dollar!

For

3,000-5,000 P.S.I.

11/2" through 12" bores, 17 mounting styles, strokes up to 22 ft., cushioned and non-cushioned. Large selection for immediate delivery.

*DuPont trademark for its tetrafluoroethyline resin

S SHEAR PROOF H MEAT PROOF E EXTRUSION PROOF F FLUID PROOF Teflon Pressure Energized Mydraulic Cylinder Tubing End Seal PAT, AFPLED FOR

OTHER MILLER QUALITY FEATURES

- Solid Steel Heads, Caps and Mountings.
- Precision-Honed Barrels.
- Rust-Resistant Coating on All Non-Wearing Surfaces.
- Space-Saving "Square" Design.

MILLER FLUID POWER DIVISION OF FLICK-REEDY CORPORATION

2028 N. Hawthorne Ave., Melrose Park, Illinois

AIR AND HYDRAULIC CYLINDERS . ACCUMULATORS
COUNTERBALANCE CYLINDERS . BOOSTERS

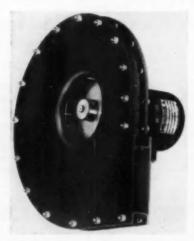
HEW

PRODUCTS AUTOMOTIVE-AVIATION

FOR ADDITIONAL INFORMATION, please use reply card at back of issue

High-Altitude Blower

A special high-altitude blower unit for ventilating and cooling aircraft enclosures and electronic equipment has been designed by the Torrington Mfg. Co. Named the SK 1991, the



unit is furnished with a totally enclosed, explosion-proof aircraft motor rated at ½ hp and 27 vdc. Air delivery is 500 cfm at a static pressure of 2.4 inches of water at 65,000 ft.

Circle 60 on postcard for more data

Sliding-Seal Valves

A sliding-seal control valve with threaded exhaust ports comes in a complete series of 2, 3 and 4 way types with levers for hand or mechanical actuation. The valve has ¼ NPT ports.

It is suited for operating single or double acting cylinders with a threeinch diameter bore. The valve has a flow capacity of 55 cfpm to accommodate large cylinders and features a piped exhaust port.

The valve body houses a precisionlapped stainless steel disk which slides on bronze rings to provide positive air-tight sealing action. A. Schrader's Son, Div. of Scovill Mfg. Co.

Circle 61 on postcard for more data

Fluid Level Control

Automatic fluid level control systems are available from Koehler Aircraft Products. The fluid level control system has two phases of application. For ground fueling it can minimize fill time, insure an accurate fill and provide for positive maintenance of cg by automatically transferring the fuel between tanks.

These systems can be used with cryogenics and oxidizers, in addition to high energy and standard type fuels. Each basic control unit contains a pilot and a shut-off valve as integral or separate installations.

Circle 62 on postcard for more data

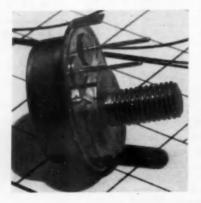
Leaded Steel Tubing

Ledloy 170 is a leaded steel tubing consisting of cold drawn seamless steel tubing of low carbon analysis with 0.15 to 0.35 per cent lead added. The "170" refers to the average cutting speed of Ledloy which is 170 surface feet per minute. The lead addition does not affect the tubing's mechanical properties. Joseph T. Ryerson & Son, Inc.

Circle 63 on postcard for more data

High-Power Transistors

Two high-power silicon transistors have been developed for switching and amplifier applications. Rated at



2 and 5 amp, the units (WX1015 and WX1016) each have a collector-to-emitter voltage range from 30 to 300 v and are capable of switching power up to 1 kw.

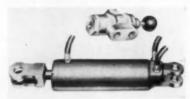
These devices are of n-p-n construction. The high voltage and current ratings of these transistors, together with low saturation resistances enable either to handle high switching power with minimum losses. The devices are characterized by small case-to-junction temperatures up to 302 F.

Each is hermetically sealed in a welded stainless steel case, designed for mounting on an external heat sink by a threaded stud. Maximum over-all dimensions of the transistors are 1½ in. in diameter and 1% in. high. Westinghouse Electric Corp.

Circle 64 on postcard for more data

Hydraulic Cylinder

The Densmore heavy-duty double acting hydraulic "Hydro-Stop" cylin-



der allows the operator to change and maintain the desired stroke hydraulically from a remote station or location. It features a floating piston within the cylinder which is controlled by a special valve. The valve is used with any four-way hydraulic system.

The floating piston is hydraulically positioned and set at any desired stroke length. It will continue to repeat this stroke until the position of the floating piston is changed by the operator.

The cylinder employs a Densmore patented gland. The rod and base clevis are cast steel, chrome-plated rod. The pistons are aluminum alloy. Densmore Engineering Co., Inc.

Circle 65 on postcard for more data

For the most reliable vehicle air brake systems-

Wagner ROTARY AIR COMPRESSORS



provide ample air...require less maintenance

It is sound judgement to equip the air brake systems of heavy duty vehicles with Wagner Rotary Air Compressors, because Wagner Compressors have the following special features:

HIGH VOLUMETRIC EFFICIENCY Rotary compression forces all air from the compression chambers. Pressure recovery is rapid at all compressor sneeds.

LOW TEMPERATURE AIR DELIVERY Oil separation and cooling before air is discharged reduces temperatures and prevents carbon formation. Fire hazard is reduced. Flexible connection may be used in discharge line.

UNIFORM TORQUE LOAD Thousands of small overlapping air compression impulses per minute maintain a more uniform load with moderated stresses and assure smooth, quiet operation with long belt life.

LOW FRICTION LOSS All rotating parts are turned by the rotor shaft, suspended on two bearing surfaces. HIGH R.P.M. Compressor can be operated at high R.P.M. High reduction drives are unnecessary.

The Wagner Rotary Air Compressor pumps compressed air into the air reservoir, providing the pressure required for the operation of brakes and other air powered devices. The compressor runs continuously while the engine is operating. Pumping is regulated by a control valve which starts or stops air compression by "loading" or "unloading" the compressor proper. This action establishes an intermittent pumping cycle which keeps reservoir pressure within the desired range.

You have a choice. These rotary compressors are available in either 9 C.F.M. capacity, air or water-cooled, or 12 C.F.M. capacity, water-cooled, and are standard with every Wagner Air Brake System.

For details on these compressors, Wagner Air Brake Systems and Equipment for trucks, tractors, trailers, buses and off-the-road equipment ... request a copy of Catalog KU201B.

Fleet operators know and trust Wagner

Wasner Electric Corporation

6363 PLYMOUTH AVENUE, ST. LOUIS 14, MO., U.S. A. (Brenches in principal cities in U.S. and in Canada)



WK58-2A

News of the MACHINERY INDUSTRIES

(Continued from page 52)

agement's responsibility toward "more realistic tax depreciation policies." He indicated the goal could only be achieved by full industry support and cooperation—and that the Treasury Department alone could not be expected

to bring this about.

In discussing "scientific formulas" for determining useful or economic lives of equipment, Mr. Barlow commented "the vagaries of inflation and obsolescence preclude the application of rigid formulas in solving the depreciation problem—particularly those formulas which embrace the physical life concept of Bulletin F." That "we must get away from the emphasis on wear and tear and think in terms of obsolescence and incentive-type depreciation." And that "very simply stated, the depreciable life must be a short enough period so that the prospect for the depreciation write-off does not stand in the way of a necessary replacement or addition."

George Terborgh, research director, Machinery and Allied Products Institute, brought out in his talk that depreciation reserves have only accounted for about 60 per cent of total capital expenditures during the past five years. He estimated the deficiency of present depreciation allowance at about \$6 billion a year. And said that "the deficiency of historical-cost accruals by reason of inflation is the main problem of tax depre-

ciation today."

Frank V. Olds, assistant comptroller, Chrysler Corp., in his presentation, urged that the obsolescence factor, as well as inflation, be given "due emphasis" in tax reform. He said the present allowances for depreciation are inadequate because (1) they have been spread over too long a period of time, and (2) they have been tied to the original cost of the equipment, not to the current cost of

replacement.

"The core of the problem," Mr. Olds asserted, "lies in the essential fact that replacement is no longer a matter of buying a new machine similar to a machine that has worn out. Most of the productive equipment in the present-day factory becomes obsolete long before it wears out. The life of machinery today is determined by the pace of technological progress—not by the length of time it takes to tire out a piece of iron."

Mr. Olds also said, "Even though the newer equipment is more efficient than the old, it still costs, on the average, much more per unit of production. The built-in factor of higher replacement cost caused by inflation . . . means that you can't replace an old machine with a new one just by recovering the cost of the old one."

(Turn to page 61, please)

0000000

NEW MORLIFE®



Small Spring Loaded



Heavy Duty



Oil or Dry



Heavy-Duty Torque with S-M-O-O-T-H Engagement

Smooth engagement and disengagement is a distinguishing quality of this NEW metal-base Morlife clutch facing. It provides the extra torque required by heavy-duty highway vehicles and off-highway equipment. Unusual heat dissipation and resistance to wear insure longer life—with less frequent adjustments and replacements. It will pay you to give your products these competitive advantages of ROCKFORD Morlife Clutches.

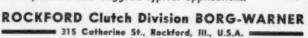


Heavy Duty

Power



SEND FOR THIS HANDY BULLETIN Gives dimensions, capacity tables and complete specifications. Suggests typical applications.



Export Sales Rare, Warner International - 26 Se Wabach Chicago 3 111



Speed Reducer

600000

the size ... the type ... the use ...

YOU'LL FIND BCA BALL BEARINGS RIGHT FOR THE JOB!



For more than half a century BCA has been a primary sup-plier of ball bearings for original equipment to most of the leading manufacturers of passenger and commercial vehicles, tractors and farm implements.

Customers tell us that our engineering cooperation has enabled them to effect production economies and improve product performance,

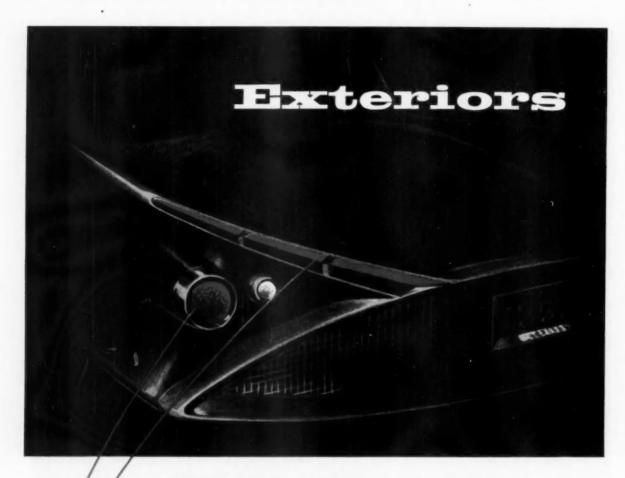
Over the years BCA has demonstrated production flexibility that assures prompt, as-promised delivery of emergency as well as routine requirements . . . in sample or production quantities.

BCA welcomes the opportunity to discuss with you any of your ball bearing applications or problems.

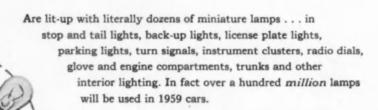


BEARINGS COMPANY OF AMERICA





and Interiors too...



New ideas for lamps are found every year and more and more of these lamps come from Hudson. Why? Because automotive buyers who "buy right" know that Hudson lamps can be depended upon for longer more carefree service. Your experience with us will be the same.

Write today for Catalog No. 101.

Hudson LAMP COMPANY

News of the MACHINERY INDUSTRIES

(Continued from page 58)

New Tax Writeoff Is Analyzed

The Machinery and Allied Products Institute has analyzed the "effect of the new initial writeoff on business investment," if it were made applicable without any dollar limitation to tax depreciation of equipment. Results of the study are contained in a brochure published by MAPI, whose address is 1200 18th St., N.W., Washington, D. C.

"New initial writeoff" is that provided for in recently-enacted Section 179 added to the Internal Revenue Code of 1954. Under the new act, a taxpayer may take an additional writeoff deduction of 20 per cent the first year of equipment acquisition. It is confined at present to only \$10,000 (\$20,000 for joint husband-and-wife returns) worth of new equipment per year. However, as is pointed out in the brochure, "it represents an interesting and promising innovation in the American tax system, the use of which may well be broadened in the future."

Summed up, the study indicates that the gain from the initial writeoff, in its broad hypothesis, could increase after-tax return from 6 to 10 per cent. This higher first-year writeoff also would obviously be a strong factor toward influencing the purchase of new and more - efficient production equipment.

Liberalized Depreciation May Encounter Snarls

Despite appeals of industry for tax depreciation reform based on the welfare of industrial America, the picture according to latest reports does not look too bright.

Plans for liberalized Federal depreciation allowances on plant and equipment investment may be sidetracked by Congress in 1959.

This year's Congressional action permitting a special tax writeoff on productive items of limited value appeared to herald a better era for industry. Apparently, Congress was headed toward a sounder approach to depreciation, to encourage industry to spend more for modern, efficient machinery and equipment.

But the opinion among trade groups in Washington is that the coming session of Congress will do little to provide this incentive. Opposition to any tax break for industry that is unaccompanied by attractive tax features for the individual may rule out freer rules on depreciation.

Some members of Congress persist in suggesting that industry has not entirely exhausted the depreciation allowances under the present tax code. That possibility is recognized by spokesmen for industry. They respond, however, that the test of a law offering tax incentives to industry is whether the enterprising concerns take advantage of it.

Congress — and, especially, the House Ways and Means Committee —will hear presentations of improved depreciation plans next year. The lawmakers will be asked to make the tax rules more realistic to meet actual conditions on initial purchase and replacement costs, and wear-out time.

However, the Congress will also be confronted by the probability of a Federal deficit of some \$12 billion in the current fiscal year. Unless some means is found to replenish the tax revenues, the plans for improved depreciation rules appear to be stymied.

Symbol Standardization Making Progress

Development of standard symbols for denoting functions and working elements of machine tools is receiving the attention of a committee representing American builders.

Since May of this year many suggestions have been considered, with the result that a dozen or so

the result that a dozen or so (Turn to page 64, please)



SOUTHERN SCREW COMPANY'S service is as famous as Southern's 10-year record for manufacturing only top quality fasteners. Over 1,000,000,000 in shock—with service in minutes If requested. If you use screws on your production line, write on company letterhead for this week's Stock List. Box 1360CP, Statesville, North Carolina.

Wood Screws • Stove Bolts • Machine Screws & Nots • A, B, C & F Tepping Screws • Wood & Type U Drive Screws • Dowel Screws • Carriage Bolts • Hanger Bolts

WAREHOUSES:

New York • Chicago • Dallas • Los Angeles



Circle 143 on Inquiry Card for more data

Can a better spring save you money?

then put American Spring Engineering Research Service to work for you!

Would you like the springs you now use to last longer? Would you like to cut their cost? Do you need design assistance on a difficult new spring application? American Steel & Wire may be able to help you.

We maintain complete spring testing facilities to help you solve any spring problem. Our spring engineering specialists can help you improve the *design* of your spring. We can help you determine the best possible *steel* to use. Then, we can completely check spring performance. We can simulate any spring operating condition and verify these recommendations in terms of improved service in your product.

Hundreds of companies have taken advantage of this service and have profited from it. Why don't you? Just write American Steel & Wire, 614 Superior Avenue, N. W., Cleveland 13, Ohio.

USS is a registered trademark



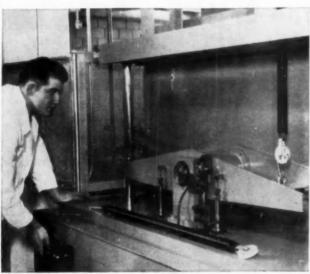
Heavy-Duty Clutch Springs Last Longer Now - Thanks to AS&W Spring Research!

The Lipe-Rollway Clutch Division, Lipe-Rollway Corporation, Syracuse, New York, asked AS&W Spring Engineering Research Service to determine if design change would lengthen the life of the flat wire compression springs used in their clutches. AS&W recommended design changes that greatly increased the spring life.



AS&W Spring Tests Make Possible New Design Rocking Chair!

40,000 springs—not one failure—American Steel & Wire helped Homecrest Company, Wadena, Minnesota, design a round wire helical torsion spring for an unusual new type of swivel rocking chair. To date, 20,000 of these chairs have been sold, but not one failure of the 40,000 springs has been reported.



Design Change Increases Operating Life of Garage Door Springs!

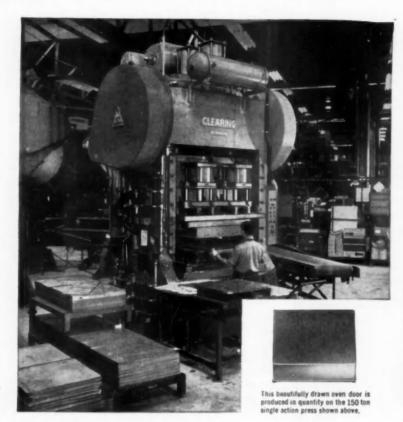
The Steel Door Corporation, Birmingham, Mich., asked the AS&W Spring Engineering Research Service for a statistical evaluation of the fatigue life of this extension hook-type spring. As a result of the test, AS&W recommended a design change which has materially lengthened the operating life of the spring.

American Steel & Wire Division of



United States Steel

Columbia-Genevo Steel Bivision, San Francisco, Pacific Coast Distributors . Tennessee Coal & Iron Division, Fairfield, Ma., Southern Bistributors - United States Steel Export Company, Distributors Abroad



HOW ONE SLIDE DOES THE WORK OF TWO

The Hotpoint Company wanted an up-to-date press to perform a smooth, shallow draw operation on range door panels.

This 150 ton Clearing Series S single action press provided an economical solution. Two pneumatic hold-down cylinders were placed on the front and back of the press ram. These cylinders provide constant, uniform blank-holding pressure. A cushion in the press bed is equipped with a lock to relieve pressure on the part at bottom stroke, and to keep the part from ejecting before the punch has moved up out of the way.

Clearing Series S presses are available from 50 to 300 tons capacity. Write for informative catalog today.

G E PRESSES



the way to efficient mass production

CLEARING MACHINE CORPORATION division of U.S. INDUSTRIES, INC. & 6499 W. 65th Street—Chicago 38, Illinois / Hamilton Division, Hamilton, Ohio

News of the MACHINERY INDUSTRIES

(Continued from page 61)

symbols will be proposed to the International Organization for Standardization (ISO) at Geneva, Switzerland.

The new symbols will be in addition to about 80 different symbols already proposed: Some are of the function kind, such as symbols for "start" and "stop." A number are pictographs indicating components such as work tables and spindles.

Chairman of the committee representing the American machine tool builders is Charles T. Blake, director of engineering, The Warner & Swasey Co. He reported on the symbol standardization program at a recent conference of the American Standards Association.

American participation in the movement received a boost early this year, Mr. Blake said, when NMTBA canvassed its membership to determine the extent of interest in the subject. The builders on the whole were quite interested, so a special committee was formed to work with the American Standards Association—U. S. member of the ISO.

Around the Industry

Gulton Industries, Inc.—Joseph P. Ronco has been made sales manager for ceramic cutting tools. According to Robert Cunha, division manager, the company will enlarge its sales representation for distribution of high-speed French ceramic cutting tools under a recent licensing agreement with Compagnie Generale d'Electro-Ceramique, the makers.

Nu-Matic Grinders, Inc. — Arthur Raske, Jr. has been appointed president.

American Society of Tool Engineers—A new American standard covering classification, designation, definition, and shank dimension tolerances of diamond tools used for dressing or truing grinding wheels has been announced. Official designation is Diamond Dressing Tools, B67.1-1958, UDC No. 621.9.027.

American Society of Mechanical Engineers-Revision of American Standard B5.30 on Knurling has been approved by the American Standards Association and published by ASME. Tooth depths for diagonal knurls have been added to the standard, and various editorial changes made for greater clarity. It is available at \$1.50 per copy either from ASA or



Foreign trade of the USSR (exports and imports combined) expanded 21/2 times to 33 billion rubles between 1950 and 1957. Trade with noncommunist countries during this period tripled, rising to 21.6 billion rubles.

Although Russia's population is greater by 30 million, the U.S. has 3.3 million more children attending elementary classes. Onefifth of the U.S. population aged 18 to 24 years were enrolled in schools of higher education in 1956-57, compared with one-twentieth of the comparable Russian population.

Twenty-seven per cent of all Russian graduates in 1955-56 were engineers, and another 28 per cent had been trained in other sciences. Comparable figures for the U.S. were 8 per cent and 21 per cent.

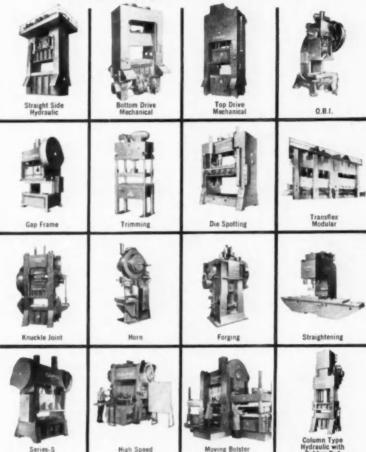
A camera used to photograph detonation waves created by fuel explosions can take 25 pictures in 1/15,000 of a second.

The silicon for transistors produced in laboratories is 99.9999-9999 per cent pure.

Digital computers can accomplish in 48 days the calculations that would take 1300 mathematicians two years to do with desk calculators.

CLEARING manufactures the right press for you

Check the press or literature in which you are interested. Tear out the page and send it to Clearing.







BULLETINS

- ☐ Automation Accessories
- ☐ Unusual Press Applications Clearflo Lubrication
- Plunger Guiding
- Overload Device
- Micro-inching ☐ Enclosed Presses
- ☐ Cushions



CATALOGS

- Series-S Crankshaft Straight Side 0.B.I.
- Bottom Drive
- Hydraulic Brochure—"New Economics of Press Automation"



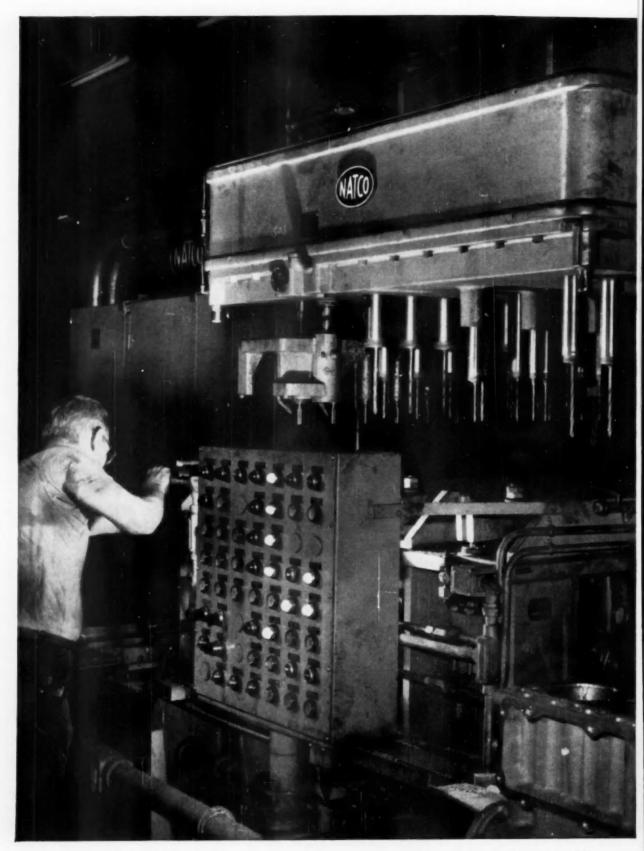
MOVIES

- ☐ A Modern Fable Transflex—Automation in Action Modular Automation
- Automation Comes of Age



the way to efficient mass production

CLEARING MACHINE CORPORATION division of U.S. INDUSTRIES, INC. 6499 W. 65th Street-Chicago 38, Illinois / Hamilton Division, Hamilton, Ohio



AUTOMOTIVE INDUSTRIES, December 15, 1958



Unique Natco Transfer Machine

One head does the work of four

New Static Control saves space, maintenance

Although it takes up only 125 sq. ft. of floor space, this Natco performs more than 36 operations per minute!

This unique machine combines four working stations under a single compact head — 32" x 57", incorporating 31 spindles. Fixture is Natco 6-station straight line index type. With a part in each station, the following operations are accomplished simultaneously:

Station 1: Load Station 2: Drill 7 holes Station 3: Drill 5 holes Station 4: Chamfer 7 holes, drill 5 holes Station 5: Tap 7 holes Station 6: Unload

Used for the first time in a transfer machine, static controls provide a new degree of reliability. Because there are no moving parts, maintenance is virtually eliminated. And this panel occupies 30% less space than conventional controls require.

Combining operations leads to economy — in this case, saved floor space, easier maintenance and all the advantages automation offers.

Call your nearby Natco representative. He can tell you how a Natco can reduce your costs, improve your methods.

Multiple-spindle drilling, boring, facing and tapping machines. Special machines for automatic production.

NATIONAL AUTOMATIC TOOL COMPANY, INC.

Dept. 305-N, Richmond, Indiana

Natco offices in Chicago, Detroit, Buffalo, New York, Boston, Philadelphia, Cleveland and Los Angeles. Distributors in other cities.





HOW STRONG IS



68

AUTOMOTIVE INDUSTRIES, December 15, 1958

THE CHAIN?

Putting it to the test is one way of finding out. Another, and by far the safest way, is to buy a reliable chain in the first place. A chain with safety-forged, matched links—designed and built to perform dependably under the roughest treatment. This is true also when you buy the chain of devices that comprise an air brake system.

When you specify Bendix-Westinghouse Air Brakes, you can shelve your worries, for you are buying a chain whose proven performance—over more than three decades—is unmatched by any other brake system. It is a complete chain because every device, every single component, is designed and built to perform a specific function with peak efficiency in a closely related system.

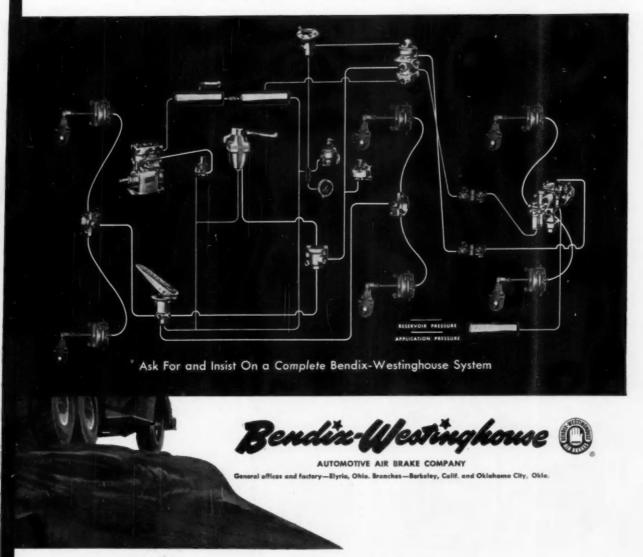
When you buy a *complete* Bendix-Westinghouse Air Brake system you buy a system for whose reliability and long, trouble-free performance we accept full and complete responsibility. Truck and fleet operators know this. That is why more trucks and buses are equipped with

complete Bendix-Westinghouse Air Brake systems than by all other makes combined.

Another durable link in the Bendix-Westinghouse chain is our nation-wide network of franchised distributors. Anywhere your vehicles go there is a qualified distributor with trained, expert service personnel, and a complete stock of replacement parts to serve your needs. Only Bendix-Westinghouse provides so broad a service. This, plus our economical repair-exchange service, a

liberal warranty policy and numerous other exclusives are but a few of the many reasons why it pays to buy air brakes built by Bendix-Westinghouse.





More Government Contract Awards

TATEST contracts awarded by varidous Government agencies, and covering primarily automotive and aviation products, are listed in the following. Typical of the items contained in these monthly listings are: passenger cars, motor trucks, aircraft, military tanks, engines, transmissions, other components, spare

parts, plant equipment, etc. This list is for the period November 1 to November 30, inclusive.

AMERICAN BOSCH ARMA CORP., ARMA DIV., Garden City, N. Y. Spare parts-\$29,037

AVCO MANUFACTURING CORP., CROS-LEY DIV., Cincinnati, Ohio Spare parts, various aircraft—\$103,286

BENDIX AVIATION CORP., BENDIX PRODUCTS DIV., South Bend, Ind. Brake assys, spare parts, data-\$400,000

BENDIX AVIATION CORP., BENDIX PRODUCTS DIV., South Bend, Ind. Spare parts, various aircraft—\$118,500

BENDIX AVIATION CORP., ECLIPSE-PIONEER DIV., Teterboro, N. J. Bearings, ball, annular, various-\$162,- BENDIX AVIATION CORP., PIONEER CENTRAL DIV., Davenport, Iowa Converters, aircraft—125 ea—\$89,017

CLEVELAND PNEUMATIC TOOL CO., Cleveland, Ohio Strut assy, aircraft—24 ea—\$205,656

COOPER TIRE & RUBBER CO., Findley, Ohio Tire—3000 ea—\$32,940

DISOGRIN INDUSTRIES INC., Mount Vernon, N. Y. Wheels, aircraft-3070 ea-\$355,261

DOUGLAS AIRCRAFT CO., Santa Monica, Calif. Repair parts-\$755,000

FORD MOTOR CO., FORD DIV., Washington, D. C. Passenger cars—107 ea—\$180,455

FORD MOTOR CO. OF CANADA, OVER-SEAS DIV., Toronto, Ontario Passenger cars—8 ea—\$14,258

GARRETT CORP., AIRESEARCH MFG. CO., DIV., Los Angeles, Calif. Spare parts, various aircraft, data—20 —1986 ea—\$46,006

GENERAL ELECTRIC CO., Atlanta, Ga. Spare parts, various aircraft-\$36,460

GENERAL MOTORS CORP., AC SPARK PLUG DIV., Flint, Mich. park plugs, various aircraft engines, various—\$137,730 Spark plugs,

GENERAL MOTORS CORP., UNITED MOTORS SERVICE DIV., Detroit, Mich.

Automotive spare parts, replenishment -\$42,008

B. F. GOODRICH CO., B. F. GOODRICH AVIATION PRODUCTS DIV., Akron, Ohio Brake assys, various aircraft, various-

\$222,993 HARLEY DAVIDSON SALES AND SER-VICE, Washington, D. C.

Motorcycles and sidecars-10 ea and 4 ea-\$16,183

HARLEY DAVIDSON SALES AND SER-VICE, Washington, D. C. Trucks-21 e1-846,752

HYDRO AIRE, INC., Burbank, Calif. Spare parts, aircraft-\$470,240

INTERNATIONAL HARVESTER CO., Washington, D. C. Truck, carryall—9 ea—\$29,409

KAMAN AIRCRAFT CORP., Bloomfield,

Conn. H-43B helicopters, spares, handbooks, data-\$10,248,758

THE LIQUIDOMETER CORP., Long Island City, N. Y. Power units, various-\$57,749

LORD MFG. CO., Erie, Pa. Mounts, various aircraft engines, vari-Mounts, vario ous-\$98,189

MACK TRUCKS, INC., Washington, D. C. Spare parts, truck-\$21,437

MERGENTHALER LINOTYPE CO., Brooklyn, N. Pressure transducers, aircraft-\$61,035

NORTH AMERICAN AVIATION CORP., Los Angeles, Calif. Spare parts, aircraft—\$60,219

PERRY PHOENIX CO., S RAND CORP., Phoenix, Ari Components, aircraft—\$176,900 SPERRY SPERRY-

UNITED AIRCRAFT CORP., HAMIL-TON STANDARD DIV., Windser Locks, Conn. Propeller synchophasers, aircraft-\$28,-

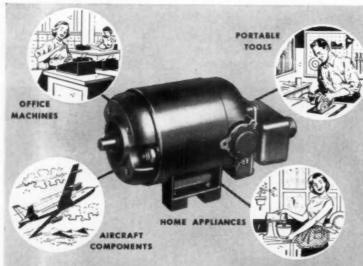
VERTOL AIRCRAFT CORP., Morton, Pa. 4A helicopters, spare parts, ground support equip.—\$300,000

WESTERN ELECTRIC CO., INC., New

York, N. Y. Nike spare parts & components—\$185,-240

WHITE MOTOR CO., REO DIV., Lansing, Mich. Spare parts-\$256,769

WILLYS MOTORS INC., Toledo, Ohio Trucks-16 ea-\$57,568



Small Motor . . . BIG Idea

FOR YOUR MOTOR-DRIVEN PRODUCT

This motor is representative of the many Lamb Electric motors specially engineered to provide:

- (1) the dependable power and smooth, efficient operation required for top product performance.
- (2) the low weight and compactness required for easy portability and good product appearance.

These advantages are standard with Lamb Electric Motors, at no increase in cost, because our plant is equipped and organized to custom manufacture on a volume basis. May we demonstrate?

THE LAMB ELECTRIC COMPANY A Division of American Machine and Metals, Inc.

In Canada: Lamb Electric-Division of Sangamo Company Ltd. - Leaside, Ontario

Lamb Electric SPECIAL APPLICATION MOTORS



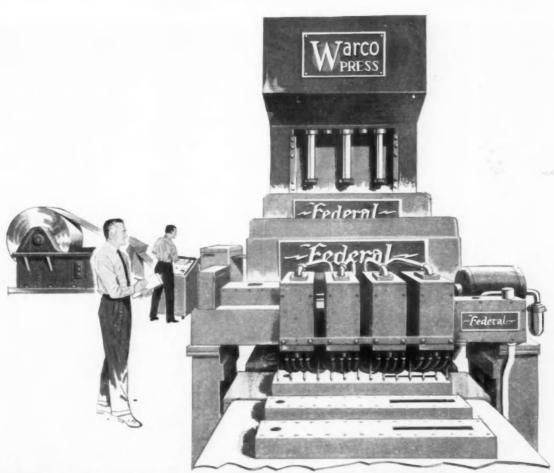
Circuit breaker actuator motor.



drill motor.



Turbine for conister-type vacuum gleaner.



NEW LOOK IN PRODUCTION LINES





From Material to Product in ONE PACKAGE

Need help to reduce your manufacturing costs and raise your production? Why not check Federal/Warco Packaged Production Lines — automated production from coil strip or sheet blanks to finished product.

Only Federal can offer you actual single source responsibility with major line components of resistance welders, punch presses, mechanical welder presses, automatic arc welders, expanders, destackers, transfer equipment and digital control — all designed and built in Federal's plants.

Federal pioneered and are leading designers and builders of packaged lines. Talk with a Federal representative when next you're planning production welding or press equipment.

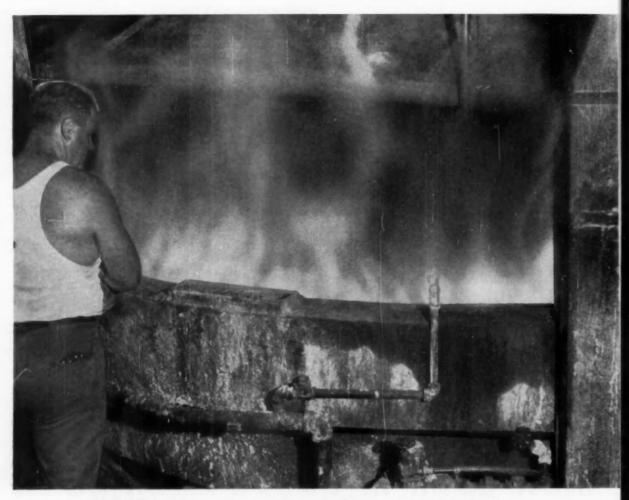
Federal /

Warco

PACKAGED
PRODUCTION LINES

THE FEDERAL MACHINE AND WELDER COMPANY - WARREN, OHIO

AFFILIATED WITH BERKELEY DAVIS, INC., DANVILLE, ILLINOIS, MANUFACTURERS OF AUTOMATIC ARC WELDING EQUIPMENT.



BEFORE SERSEAL, steam, vapors and fumes escaped from the hot phosphating bath. Cost of heat was high, it took 3 hours to bring the bath to operating temperature, the exhaust system was expensive and ineffective.

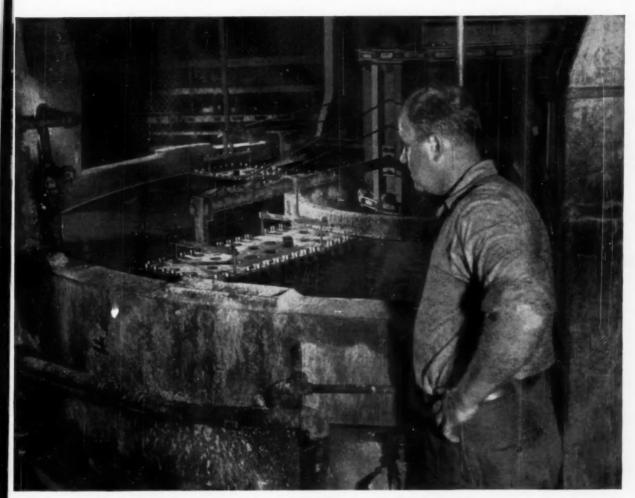
Over \$8500 net SAVED IN FIRST YEAR on hot manganese-iron phosphating bath

The Serseal chemical blanket on the ACP Thermoil-Granodine* phosphating bath has been in operation at the Pottstown Division of Dana Corporation for almost a year. In this time heating costs have been reduced by \$30.10 a week, a scheduled replacement of the exhaust system at an estimated cost of \$7500 has been canceled, and the power cost of operating a 5 hp motor and blower has been eliminated — a saving of over \$8500. Two other major advantages have been realized: the time required to bring the ACP Thermoil-Granodine bath to operating tempera-

ture has been cut in half even though the valves on the heating coils are only cracked; working conditions around the bath have been materially improved.

No Change in Quality of Coating or Operation of the Bath

The quality of the coating produced in the 2500-gal. phosphating operation has not changed since adoption of the Serseal blanket. And other operating costs have remained constant. The replenishing rate of the ACP Thermoil-Granodine bath is the same; there has been no increase in sludge buildup.



AFTER SERSEAL, heating costs were materially reduced, it took just half the time to bring the bath to operating temperatures, a planned replacement of the exhaust system was canceled, and power costs were eliminated.

with **SERSEAL*** chemical blanket at Pottstown Division, Dana Corporation

If you have a hot phosphating operation, a SERSEAL chemical blanket can save you money. An ACP man will be glad to discuss its advantages with you. For complete information or to have a technical man call, write us at Ambler, Pa.

> *SERSEAL and Thermoil-Granodine are registered trademarks of AMCHEM PRODUCTS, INC. Patent on the SERSEAL process has been applied for.

Amchem Products, Inc. Ambler 24, Pa.

Formerly AMERICAN CHEMICAL PAINT COMPANY CHEMICALS DETROIT, MICH. . ST. JOSEPH, MO. . NILES, CALIF. . WINDSOR, ONT. New Chemical Harisons for Industry and Agriculture



A 1/2-inch layer of SERSEAL cut heating costs, eliminated the need for an ex-pensive exhaust system. Only 80 gal. of SERSEAL layer and 55 gal. of SERSEAL activator in the bath were used in 22 weeks' operation.

ON OUR WASHINGTON WIRE

Military experts say there is little hope of any lessening in tensions between the Reds and the free world at any time soon. Harassing tactics such as in the Berlin crisis can be expected. The disarmament talks under way in Geneva are doomed to failure, unless a miraculous change in the attitude of the USSR occurs.

Coming now, when the White House is putting together its Federal budget for the new fiscal year, the tensions point the way to still greater spending for U.S., and global defenses.

Ike's plans for holding the line of Federal spending are to be trampled by the new Congress. Victorious members of the new Senate and House are declaring themselves for more, not less. Government spending next year.

Costlier weapons, plus inflation, make a bigger defense budget absolutely necessary, says Rep. George H. Mahon, D., Tex., the influential chairman of the House subcommittee handling the defense money bill.

As for other (nonmilitary) Government departments and agencies, the White House is drawing up a "hold the line" budget in which almost no new spending programs are listed. But here again we can expect the new Congress to trample on White House proposals. Chances are strong that the new Congerss will vote more money for public housing, river and harbors, dams, roads, airports, and relief for so-called distress areas.

A three-year, \$3 billion foreign loan program to be administered through the U. S. Development Loan Fund may be sought next year by the Eisenhower Administration. Managers of the fund are urging the President to ask Congress to change the fund's operation from an annual appropriation basis to a permanent program with power to draw from the U. S. Treasury up to \$1 billion a year.

This country still spends only a small portion of its total research and development dollar for basic investigation. In the current fiscal year, some \$281 million will go for basic research. This is about 8 per cent of the \$3.9 billion that all research and development will take, and about a quarter of the sum that will be spent on research alone.

Arms development may be aided by rewriting of Army research contract policy. Top Army men would give industry contractors more freedom to produce detailed results from basic specifications and would permit more flexible use of funds allocated for development work. Breakthroughs in critical projects could be exploited faster.



"tappets are our business"

strength, light weight and increased wear resistance.

Serving the AUTOMOTIVE - AIRCRAFT - FARM -

JOHNSON PRODUCTS

INDUSTRIAL - MARINE Industries.

"PROVING GROUND"

for tomorrow's timing chains



PRECISE INSTRUMENTS accurately record performance of timing chain drives on six current-model engines in adjoining dynamometer laboratory.

TYPICAL TEST STAND . . . conforms to accepted automotive industry testing standards.

Through advanced testing techniques, LINK-BELT perfects new timing chain designs...by automotive industry standards





TIMING CHAINS AND SPROCKETS

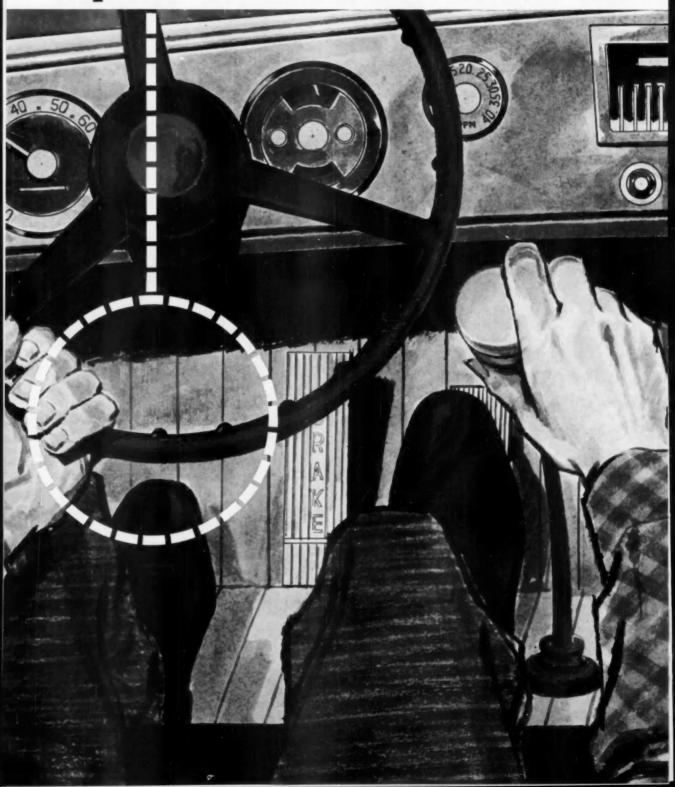
LINK-BELT COMPANY: 220 S. Belmont Ave., Indianapolis 6, Ind.
Offices in Principal Cities.

LINK-BELT's modern dynamometer rooms—in which the latest in instrumentation is used in timing chain experiments with today's engines—serve as proving ground for automotive timing chain designs and materials. This research has produced such developments as the space-saving 11/16-in. width timing chain used by major auto makers since 1949. And today's tests are helping to perfect new timing drive efficiencies for the cars of tomorrow.

You are welcome to enlist the facilities of the world's largest chain plant—plus Link-Belt's 45 years of timing chain application experience—in furnishing a test drive to your specifications. Or, for complete engineering and specification data, write for Book 2065.

the clutch is in but the pedal's out ... it's

Spicer's New Presto-



matic* Transmission

... with the touch-button control that takes the effort out of driving.

Here's the Semi-Automatic Truck Transmission that's Got Everything. . . Yet its Cost is the Lowest!

No clutch pedal . . . it's been replaced by a simple touch-button switch on top of the shift control lever. Touch the gearshift knob and the clutch is disengaged . . . automatically!

Smooth engagement from a standing start . . . without using a clutch pedal . . . because the Presto-matic Transmission automatically engages as the driver presses the accelerator.

Automatic clutch throw-out when the engine returns to idling speed. The driver can inch along in heavy traffic just as he would with a fully automatic transmission.

Lowest initial cost . . . absolutely the lowest . . . of any semi-automatic transmission system on the market.

Maximum fuel economy found only in a transmission-clutch system. And, the driver controls the gear he's in for top fuel economy in every situation.

Minimum maintenance because there are no moving parts or adjustments to be made in the automatic control mechanism. Clutch life is greatly increased since the driver can't overspeed the engine when engaging the clutch.

Maximum durability achieved through selection of simple components that have been time-tested and proved as a complete, tailored assembly.

Greater safety for the driver and his equipment because the Presto-matic Transmission leaves gear selection in the hands of the driver at all times.

Simplifies chassis design by eliminating many of the remote control linkage problems found in Cab-Over-Engine or Tilt-Cab installations.

Write now for a free illustrated booklet containing complete information on the operational advantage of the remarkable NEW PRESTO-MATIC TRANSMISSION. The address is Dana Corporation, Toledo 1, Ohio.



DANA CORPORATION

TOLEDO 1, OHIO

*Patent Pending

FOR LOWER TON-MILE COSTS



with DEPENDABLE
CONTINENTAL RED POWER

In highway hauling, as elsewhere, profit margins continue to shrink, and wise choice of rolling stock becomes more essential than ever. That is why more and more truckers are replacing original equipment engines with rugged Continentals, engineered expressly for the job. Choose from the models listed below. See your distributor today.

RED SEAL TRANSPORTATION ENGINES

GASO	LINE		
Model	Cyl.	Displ.	Barn Engine H.P.
N4062	4	62	26.3 @ 3500 RPM
Y4069	4	69	28.0 @ 3400 RPM
Y4091	4	91	36.0 @ 3400 RPM
F4124	4	124	47.0 @ 3200 RPM
F4140	4	140	52.0 @ 3200 RPM
F4162	4	162	58.0 @ 3200 RPM
F6186	6	186	77.0 @ 3500 RPM
F6209	6	209	90.0 @ 3500 RPM
F6226	6	226	98.8 @ 3500 RPM
F6244	6	244	103.3 @ 3500 RPM
M6271	6	271	96.5 @ 3000 RPM
M6290	6	290	108.0 @ 3000 RPM
M6330	6	330	125.0 @ 3000 RPM
M6363	6	363	146.0 @ 3000 RPM
B6371	6	371	123.5 @ 3000 RPM
B6427	6	427	142.0 @ 3000 RPM
F06226	6	226	126.2 @ 3400 RPM
K6271	6	271	114.5 @ 3200 RPM
K6290	6	290	123.0 @ 3200 RPM

Model	Cyl.	Displ.	Bare Engine H.P.
K6330	6	330	147.0 @ 3200 RPN
K6363	6	363	162.0 @ 3200 RPM
T6371	6	371	143.8 @ 3000 RPM
T6427	6	427	170.0 @ 3000 RPN
U6501	6	501	186.0 @ 2600 RPM
R6513	6	513	192.2 @ 2800 RPN
R6572	6	572	220.0 @ 2800 RPN
R6602	6	602	232.0 @ 2800 RPM
\$6749	6	749	250.0 @ 2800 RPM
\$6820	6	820	300.0 @ 2800 RPM
V8603	8	603	260.0 @ 3200 RPM

CUSHIONED POWER DIESEL

Medel	Cyl.	Displ.	Bare Engine H.P.
TD6427	6	427	146.5 @ 2600 RPM
RD6572	6	572	172.0 @ 2400 RPM
VD8603	8	603	200.0 @ 2800 RPM
SD6802	6	802	225.0 @ 2200 RPM

PARTS AND SERVICE EVERYWHERE



Continental Motors Corporation

8 EAST 45TH ST., NEW YORK 17, MEW YORK - 2017 S. SANTA FE AVE., LOS ANGELES SA, CALIF.
6218 CEDAR SPRINGS ROAD, DALLAS 9, TEXAS - 1292 OAKLEIGH DR., EAST POINT (AYLANTA) GA.

New Production and Plant Equipment

(Continued from page 54)

Brazing Alloy Cement

NICROBRAZ Cement, a liquid plastic material for use in applying powdered brazing alloys, is available in six different viscosities. It acts as both a vehicle and a binder and may be mixed with any powdered brazing alloy to permit application to joints with a brush, eyedropper or other means. It holds the alloy in place during application and handling, as well as placement in the furnace. Wall Colmonoy Corp.

Circle 34 on postcard for more data

Air-Electric Nibblers

PENWAY portable electric and pneumatic nibblers are capable of cutting through 16, 10 or 8 gage stainless. Most of the models, the heaviest of which is 13 lb, can cut inside circles, squares and odd shapes in a minimum radius of two inches, with a 2¼ in. starting hole on 10 gage stainless steel or eight gage mild. The units are able to cut both ferrous and non-ferrous metals without distortion. Fenway Machine Co.

Circle 35 on postcard for more data

Elevator Handling Truck

Towmotor Model 540 lift trucks are equipped with 48 in. forks and special fork adapters which permit lowering of the load 84 in. below floor level into a quench tank. Maximum lift is 12 ft. Over-all lowered height is less than eight feet. For safety, the 6100 lb capacity truck is equipped with an overhead guard, plus a transparent heat shield and drive tire heat shields. Towmotor Corp.

Circle 36 on postcard for more data

Permanent Magnet Motor

G LOBE Industries, Inc., has developed a line of ½ in. diameter permanent magnet motors identified as "BD" and "BL" motors. The BD motor size is 1½ by 2 9/16 in. (excluding shaft) with a rated output to 1/45 hp at 10,000 rpm on a continuous duty cycle. The BL size is 1½ by 2 15/16 in. with a rated output to 1/30 hp at 10,000 rpm on a continuous duty cycle. Both types are completely cylindrical in diameter.

Circle 37 on postcard for more data (Turn to page 80, please)

HIGH PRESSURE FLUID POWER FOR MOBILE EQUIPMENT · ·



Investigate the Advantages of Low Cost, Long Service Life and **High Pressure Operation on Mobile Equipment!**



HYDRECO°

Series 2100

GEAR PUMPS

Designed to cover a broad range of difficult applications, such as: heavy duty earth moving, road building and materials handling equipment. They feature four design advances that add up to . . . More Duty Hours at Top Volumetric Efficiency and Minimum Cost.

- Piloted housing and end covers eliminate shifting.
- Thrust bearing—to take axial thrust of hydraulic forces.
- Two-stage seal runs cooler lasts longer.
- Improved shaft bearings—tolerate increased loading.





for full information on Series 2100 and Series 3000K Gear Pumps.

HYDRECO DIVISION

KALAMAZOO - MICH.

16 to 32 gpm at 1800 rpm Operating Pressures to 2000 psi 40 gpm at 1800 rpm Operating pressures to 1500 psi

The 2100 Series of HYDRECO Gear Pumps embraces heavy duty applications in the range immediately below that covered by the famous HYDRECO 3000K Series. Thus, with the 2100 and 3000K Series engineers have a broad selection of sizes in Hydraulic Pumps with established history of high performance and dependability.

HYDRECO Division	
The New York Air Brake	Company
9005-12 E. Michigan	
Kalamazoo, Mich.	

Please	sendr	ne lat	est bulle	etins on	HYDRECO
Series Pumps		and	Series	3000K	Hydraulic

Name.

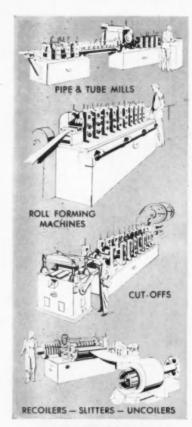
Company_

Address.

Zone_State

AUTOMOTIVE INDUSTRIES, December 15, 1958

Circle 155 on Inquiry Card for more data



YODER MAKES THEM ALL

... Complete equipment lines for heavy or light production!

Uncoilers, slitters, roll-forming machines, cut-offs, pipe and tube mills, special machinery for ferrous or non-ferrous metals are all made and engineered by Yoder to fit your specific requirements.

Special attachments and auxiliary units can perform additional operations such as welding, coiling, punching or embossing without extra labor cost while increasing production speed.

Let Yoder engineering and "knowhow" help you get the most from your plant... with Yoder equipment. For full details, write to:

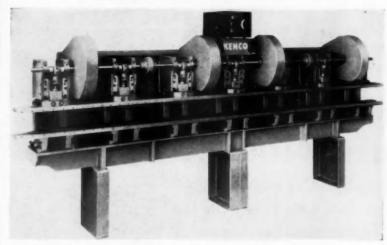
THE YODER COMPANY



Circle 156 on Inquiry Card for more data

New Production and Plant Equipment

(Continued from page 78)



Kenco Mark VII consists of seven five ton presses mounted on one common platen.

Unit Punches, Forms, Blanks, Bends Extruded Metal

The Kenco Mark VII is designed for punching, forming, blanking or bending of long extruded metal strips. It consists of seven five ton punch presses mounted on one common high tensile sorbitic ribbed-styled platen, which provides the necessary rigidity. The plates can be arranged to handle any number of dies or positions within the area of the die plate.

This machine is equipped with the

"Electro-Safe" motor, controls and drive, which assures safety in the loading and unloading in the die area. Controls for the unit can be installed in any sequence to handle any number of operators required for the job. Each operator must apply both hands to actuate the press and must release both hands before the succeeding stroke can be made, Kenco Mfg. Co.

Circle 38 on postcard for more data

Heavy-Duty Drill Pointer

ADDITION of a heavy-duty model to its #21 Drill Pointer line has been made by Oliver Instrument Co. It uses ball bearings in conjunction with a special, cam-operated stud. This controls horizontal motion as the drill moves across the grinding wheel

face to produce the desired point. Capacity of the machine is 3/32 to ½ in. Included as standard equipment is the ¼ hp motor, grinding wheel, diamond dresser, jaw assemblies and setting gage.

Circle 39 on postcard for more data



Oliver heavy-duty No. 21 Drill Pointer.

Adjustable Speed Sheave

A DJUSTEX sheaves, simplified, stationary adjustable speed sheaves are available from Allis-Chalmers. The sheaves are available for A, B and C section belts in two, three and four-groove construction.

Pitch diameter adjustment is made through a single adjusting screw and a hollow lock screw. Relative position between stationary and movable disks is positively maintained at all pitch diameters without disk to maintain sleeve set screws. Allis-Chalmers Mia. Co.

Circle 40 on postcard for more data (Turn to page 86, please)

NEW FAIRPRENE® DIAPHRAGM MATERIAL

demonstrates outstanding resistance to "sour gas," ozone and aromatic fuels

Du Pont research has developed an outstanding "Fairprene"† coated fabric for diaphrams in fuel pumps and carburetors. This new "Fairprene" shows remarkable resistance to the effects of oxydized gasoline, or "sour gas," and ozone. It is exceptionally resistant to swelling in contact with highly aromatic fuels. In addition, this new "Fairprene" coated fabric shows superior abrasion resistance and retains its properties to -65°F.

New "Fairprene" ozone and fuel-resistant coated fabric is offered in widths to 41" and thicknesses from 0.004" to 0.050", with cotton, rayon or nylon fabric inserts. Mail coupon or write for your free sample plus complete specifications and prices. E. I. du Pont de Nemours & Co. (Inc.), Fabrics Division, AI-129, Wilmington 98, Delaware.

CONSTRUCTIONAL AND PHYSICAL PROPERTIES†

Quality No.	22-005FO	21-009FO	22-006FO
FABRIC BASE	NYLON	COTTON	NYLON
Thickness	.013"	.013"	.050"
Tensile Strength—Lbs./Inch, Min.	75 x 75	80 x 80	300+ x 300+
Tear Strength-Lbs., Trap., Min.	2 x 2	2 x 2	25 x 25
Burst Strength-PSI, Mullens, Min.	125	125	500
Ozone Resistance at 60 Parts Per Million*	OK 208 Hr.	OK 208 Hr.	OK 208 Hr.
Fuel Resistance—Volume Change after 72 Hrs. at Room Temp. in ASTM High Aromatic Fuel**	+3.3%	+9.4%	+20.9%

*Ordinary diaphragm materials fail in 15 minutes under this test.

**Ordinary diaphragm materials swell about 20% under the same conditions.

††The above data are based upon tests on production experience and should not be used as specifications.

DU PONT INDUSTRIAL COATED FABRICS SHEET STOCKS · CEMENTS



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

"Fairprene" is Du Pont's registered trademark for its coated fabrics, sheet stocks and cem

Mail coupon for free sample of new "Fairprene" ozone and aromatic fuel-resistant diaphragm material . .

E. I. du Pont de Nemours & Co. (Inc.) Fabrics Division, Dept. AI-129, Wilmington 98, Delaware

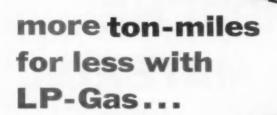
- □ Plesse send free sample of new "Fairprene" diaphragm material with high ozone and aromatic-fuel resistance.
- ☐ Please send bulletin on "Fairprene" industrial coated fabrics.

Company

Address

AUTOMOTIVE INDUSTRIES. December 15, 1958

Circle 157 on Inquiry Card for more data



and Century
C Carburetion

LP-Gas and Century Carburetion
offer many money-saving advantages to truck
fleet operators—lower fuel costs, lower maintenance
costs, less downtime, and more ton-miles of trouble-free
operation—and Century combines this economy
with top performance.

Century 3C Carburetors are individually designed for each make of engine, and they are factory-calibrated and pre-set to its performance curve. You get easy starting, perfect idling, constant power and speed in all operating conditions.

Century 3C Carburetion, a product of Borg-Warner, employs a metering valve system to provide perfect fuel-air mixtures at all throttle settings. Performance is not dependent upon delicately adjusted, spring operated pressure regulators. That's why only a tune-up adjustment is required when installing a Century—you just set it, seal it and forget it.

Get the facts! Write for booklet titled, "How Truckers Save on Fuel, Lubrication and Maintenance."



There is a 3C Century Carburetor for every make and model of truck engine.

CENTURY

LP-GAS CARBURETION

Export Sales: SinPar Automotive Div., Singer Products Co., 15 Moore St., New York 4, N. Y.



Century Gas Equipment

Marvel-Schebler Products Division, Borg-Warner Corp.
625 Southside Drive, Decatur, Illinois

DENISON Armounces...

NEW 2 to 8-ton "E-SERIES" Multipress line

- BENCH PRESSES WITH BIG PRESS PERFORMANCE
- LOW-COST REPLACEMENT FOR OUT-MODED FLOOR PRESSES
- MORE TONNAGE PER DOLLAR...MORE DAYLIGHT FOR WIDER TOOLING RANGE



FOR 101 PRESSING JOBS . . . new "E Series" Multipress packs maximum big press performance in bench press space. 4-ton Multipress is shown above on rigid, lightweight bench accessory.

HERE'S WHY IT'LL PAY YOU to check your production against the features of Denison's new "E Series" hydraulic Multipress line—

- BIG PRESS PERFORMANCE in a bench model size. Ram speeds: Closing up to 1450 ipm. Pressing up to 570 ipm. Return up to 920 ipm.
- MORE DAYLIGHT than comparable presses ... 18" opening adapts extra-wide range of tooling.
- SAVES FLOOR SPACE...compact design (16" x 26" x 49") can do floor press jobs in bench press space.
- GREATER TONNAGE for its size than any comparable press.
- MOBILITY...makes operations more flexible.
 Fast and easy-to-move anywhere in your production area.
- MANUAL OR AUTOMATIC OPERATION...Can also be equipped with Denison accessories including feeds and index tables.
- LOW-COST... designed expressly to replace outmoded, heavy floor presses and still do the job.
- OPERATING FEATURES...oil smooth hydraulic power system ... completely self-contained unit ... rapid cycle time ... fast, simple setup ... interlocked safety controls ... precisioncontrolled, adjustable ram pressures.

AUTOMOTIVE INDUSTRIES, December 15, 1958



THE SECRET of Denison's new "E Series" hydraulic Multipress line is in this production-proved fact: Properly applied lower pressures produce better quality products—more efficiently and with less scrap—than misapplied higher pressures. Construction and control features of the "E Series" Multipress are designed to give maximum performance at lowest possible cost.

Write for full details in Bulletin M-34.

DENISON ENGINEERING DIVISION American Brake Shoe Co.

1212 Dublin Road . Columbus 16. Ohio

Denison, Denison HydrOlLics, and Multipress are

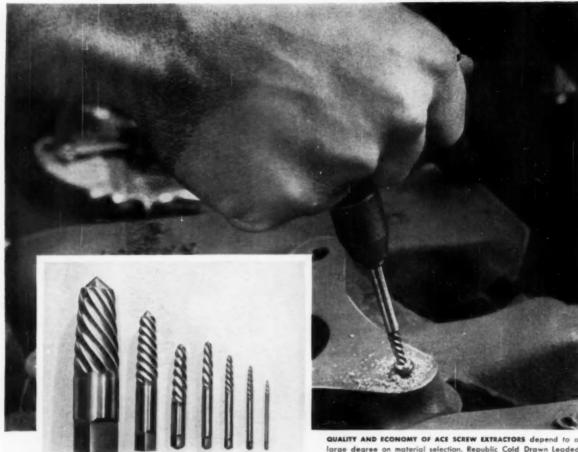
Denison Stocking Branch Offices:

CLEVELAND DETROIT HOUSTON NEWARK ATLANTA CHICAGO LOS ANGELES



HYDRAULIC PRESSES . PUMPS . MOTORS . CONTROLS

Circle 159 on Inquiry Card for more data



QUALITY AND ECONOMY OF ACE SCREW EXTRACTORS depend to a large degree on material selection. Republic Cold Drawn Leaded Alloy Steels help meet these product requirements by providing high hardenability and toughness, plus good formability.

REPUBLIC COLD DRAWN LEADED ALLOY STEEL IMPROVES PRODUCTION AND PERFORMANCE

of Ace Screw Extractors

Use of Republic Cold Drawn Leaded Alloy Steel for Acce Screw Extractors helps the Henry L. Hanson Company, Worcester, Massachusetts, secure an ideal combination of production and performance advantages.

First, rolling of the extractor spirals used to require several passes, each followed by an annealing operation. Now, with Republic Leaded Alloy, separate passes can be made deeper. Result is a substantial reduction in the total number of steps. Moreover, since cold drawing improves the machinability of any given analysis, savings in machining costs are secured.

Next, in-service demands on Acc Screw Extractors require a high degree of hardness and toughness.

The two Republic Alloys used (4140 and 4150) provide these properties with margins to spare. With scientific heat treatment, the finished extractors are practically unbreakable.

Republic Cold Finished Alloy Steels are available in every standard analysis, plus many specials, to give you the best combination of chemical and mechanical properties to suit virtually any application. Republic Metallurgists will be glad to work with you in developing still other types as required.

It will pay you to get complete information on all of the advantages offered by Republic Cold Finished Alloy Steels. Simply contact your nearest Republic office or mail coupon.



TOUGH PERFORMANCE SPECIFICATIONS make Republic Cold Finished ENDURO® Stainless Steel Bars ideal for this highspeed hull testing device. Hull models are suspended from a carriage which rolls on Republic Stainless Steel Bars. High tensile strength, close tolerance, and a fine surface finish provide smooth, precise operation of the testing device. Excellent service life is assured by ENDURO'S high resistance to corrosion, wear, and abrasion. Send coupon for further information on Cold Finished ENDURO Bars.

INCREASED PRODUCTION, LOWER COSTS, IMPROVED QUALITY can be gained in parts produced from Republic Cold Drawn Special Sections. Because they are formed to the predominating cross-section of the part, special sections eliminate or greatly reduce required machining. Results are faster output and lower cost. Also, since cold drawing improves the physical properties of any given analysis, completed parts are stronger and longer wearing. Other advantages may include improved appearance and simplified design. For further information, mail coupon.

BRUTAL PUNISHMENT IMPOSED ON PULPSTONE STUDS during manufacturing and service is the reason why the Norton Company, Worcester, Massachusetts, specifies Republic Cold Drawn Steel Bars as basic material. Production requires a rugged combination of heavy roll-threading and machining. Completed studs are used to anchor abrasive segments to pulpstones. Pulp grinding operations impose very heavy loads on each stud. The excellent machinability, formability, and strength characteristics of Republic Cold Drawn Steel helps Norton meet all of these requirements with performance margins to spare. Moreover, finished stud cost is far less than previous minimums. Send coupon for facts.



REPUBLI



STEEL World's Widest Range of Standard Steels and

Steel Products

REPUBLIC STEEL CORPORATION DEPT. A1-5913

1441 REPUBLIC BUILDING . CLEVELAND 1, OHIO

Please send more information on these Republic Cold Finished Steel Bars:

□ Alloys □ Leaded Alloys ☐ Carbon Steel

DENDURO Stainless Steel ☐ Special Sections

Name_ Title__

Company_

City_ _Zone_State_

COST-CUTTING PRODUCTION TEAM

MILFORD RIVETS and RIVETERS



Full or Semi-automatic Bench or Floor Models Single or Multiple Spindle



Buy

Bonds

ന

FIVE MANUFACTURING PLANTS GIVE UNMATCHED SERVICE



MACHINE CO.

MILFORD, CONNECTICUT . HATBORO, PENNSYLVANIA ELYRIA, OHIO . AURORA, ILLINOIS . NORWALK, CALIF.

Circle 161 on Inquiry Card for more data



Circle 162 on Inquiry Card for more data

BYREM H-1-507 SLUE No. 187 is used to locate high spots when scraping bearing surfaces. As it does not dry, it remains in condition on work indefinitely, saving scraper's time. Intensely blue, smooth paste spreads thin, transfers clearly. No grit; noninjurious to metal. Uniform. Available in collapsible tubes of three sizes. Order from your supplier. Write for free sample tube on company letterhead.

THE DYKEM CO., 2301-L NORTH 11TH ST., ST. LOUIS 6, MO.

Circle 163 on Inquiry Card for more data

New Production and Plant Equipment

(Continued from page 80)

Rotary Assembly Machine

THIS high-speed rotary transfer mapressing station to perform crimping, riveting, staking and forming opera-



Ferguson rotary transfer machine.

tions in conjunction with automatic assembly or for dial feed secondary press functions in making small parts.

Called the Type "O" Pressembler. it has a roller gear drive as the dial indexing mechanism to provide smoothness of transfer without sudden starts and stops. The drive achieves an accuracy of 0.001 in. and zero backlash without auxiliary or locking methods and is rated for a minimum of 8000 hours operation without maintenance. Capacity of the press station is 14 tons with a 2 in. stroke. Ferguson Machine Corp.

Circle 41 on postcard for more data

Pneumatic Grinding Tool

HEAVY-DUTY pneumatic tool spe-A cially designed for hard-to-reach areas is announced by Doeden Tool Corp. Based on the rotary-vane operating principle, the Model 2EL5 tool is equipped with long extension which facilitates reaching into areas in deep dies, castings, forgings, etc., and also permits two-handed operation for heavy-duty grinding.

Circle 42 on postcard for more data

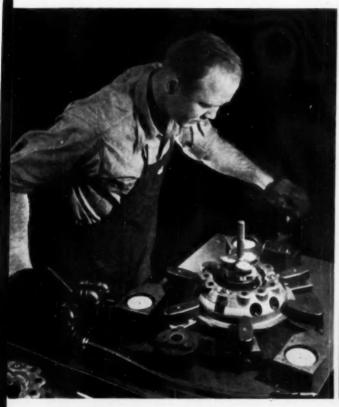
Quality Control is a BORG & BECK tradition that means

BETTER CLUTCHES

At Borg & Beck, quality control is not just a phrase to which we pay lip service. It is a tradition born of the long-standing Borg & Beck policy of building up to a standard—not down to a price.

In the photograph at the left, for example, release levers are being checked on special equipment to make sure they are parallel with the pressure plate. As shown at the right, every Borg & Beck clutch plate is carefully tested for correct deflection to assure positive release. And every driven plate and cover assembly is dynamically balanced for maximum smoothness of operation.

These exacting tests are typical of the extra care that goes into every step in the making of Borg & Beck clutches. They are your assurance of top quality, top performance, top value. And that means: BETTER CLUTCHES.









BORG & BECK

THE AUTOMOTIVE STANDARD FOR MORE THAN 40 YEARS BORG & BICK DIVISION, BORG-WARNER CORPORATION, CHICAGO 38, ILLINOIS

Export Sales: Borg-Warner International, 36 S. Wabash, Chicago 3

Circle 164 on Inquiry Card for more data



88

AUTOMOTIVE INDUSTRIES, December 15, 1958

Read the Temperature and SAVE!

New Cold Bonderite System Cuts Heat Costs Up to 70%

The temperature gauges on the input lines of a typical Cold Bonderite System installation tell the story. 40° to 75° cooler in cleaner, rinse and Bonderite than in the conventional hot phosphating installation.

And all that heat saved translates into dollars saved, because chemical costs are comparable, as is the effective protection of the coatings produced.



Salt spray tests show effectiveness of coatings produced by Cold Bonderite

This is a thoroughly tested and proven system. The Cold Bonderite System is in use right now in many plants in many industries. And more are changing to it as they hear about the spectacular savings.

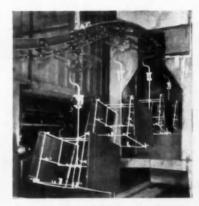
- · A large automotive plant reports savings at the rate of 40 carloads of coal per year.
- An appliance manufacturer says the Cold Bonderite System is saving 5¢ per cabinet.
- · Another manufacturer shut down one of his boilers because of reduced heat requirements.
- · An automotive plant is saving about 12¢ per body.

There are other operational savings besides heat when you use the Cold Bonderite System. You'll use about 25% less water. You'll save electricity because you won't

need to run an exhaust fan. You'll save on maintenance. You'll cut down-time, since there's no waiting for cool-off should service be required.

There are so many benefits and advantages to the new Cold Bonderite System that you can't afford not to investigate it for your plant.

Call or write today!



Parker quality and Parker dependability mean that your production lines will roll steadily and efficiently.

PARKE

RUST PROOF COMPANY

2178 E. Milwaukee, Detroit 11, Michigan Tel: TRinity 5-3377

BONDERITE corrosion resistant paint base

BONDERITE and BONDERLUBE PARCO COMPOUND aids in cold forming of metals

rust resistant

PARCO LUBRITE wear resistant for friction heavy duty maintenance surfaces paints since 1883

TROPICAL



*Bonderite Bonderluhe Parco Parco Lubrite-Rev. U.S. Pat. Off.

Just as a matter of machining economy— Why don't you investigate

CARMET INDEXABLE INSERTS

AND TOOLHOLDERS

Cost to regrind single point tool	50¢ to 1.50
Cost to regrind Carmet Indexable Inserts	NOTHING
Cost of 800 brazed single point tools at approx. \$3.50	\$2,800.00
Cost of 100 square Carmet Indexable Inserts with 800 cutting edges, approx.	\$100.00

Plus savings in higher production, longer tool life, tool storage, tool inventory, less tool-change downtime

Over 9 styles and 109 sizes in Carmet cadmium plated tool holders. 6 carbide grades for machining almost all material from wood and plastics to high alloy steels.

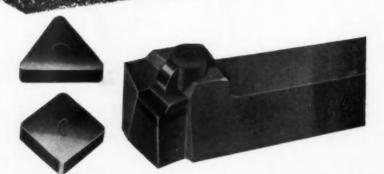
Write for new Catalog C-16

CARMET CEMENTED CARBIDES FOR INDUSTRY



This 32-page first edition contains prices and complete specifications on Carmet's full line of cemented carbide tipped tools, blanks and holders. Speed and feed charts, grade comparisons and ordering information included.

ADDRESS DEPT. Al-12



See your Carmet Distributor now or write Carmet Division, Allegheny Ludlum, Detroit 20, Michigan



CEMENTED CARBIDE DIVISION OF ALLEGHENY LUDLUM STEEL CORPORATION



R B.W FASTENER BRIEFS

RUSSELL, BURDSALL & WARD BOLT AND NUT COMPANY



Technical-ities

By John S. Davey

The strength of nuts

With a hard, heat treated nut, ability to plastically adjust and distribute load over many threads diminishes. High loads tend to concentrate on first thread severely enough to cause stripping . . . or fracture of first thread, which causes locking. Nut then cannot increase tension in bolt.

Untreated nuts are strong enough for most needs, and don't pose this problem.

A CAUSE OF STRIPPING

Upon tightening, a nut both compresses and dilates. Dilation can be overcome by wall thickness only, not by added height or heat treatment.

Dilation is important since a reduction in area of bolt under tension accompanies it. Threads pull away from each other, from their stronger base to weaker tips. The shallowness of fine threads can cause progressive shear.

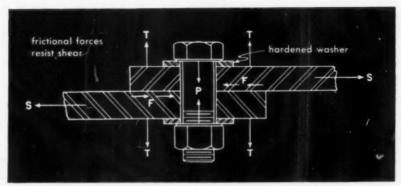
That's why High Nuts (with fine threads) are no answer where "Heavy" Nuts (with coarse threads) are.

WRENCHING STRESS HIGHEST

Rotation of nut produces both tension and torsion in bolt. The force applying this combined stress is about 20% greater than the load which must be sustained when rotation stops.

Thus...if a nut hasn't failed in wrenching, it can still withstand at least 20% more direct pull than it sustained during the tightening.

Why high strength bolts make superior joint for dynamic loads



Washers prevent crushing under head and nut with consequent grip relaxation.

While fasteners must be strong enough to carry the calculated loads, what makes a *joint* truly strong is the residual tension after wrenching.

NO SLIP OR SEPARATION

Consider the simple lap joint in sketch. Practically rigid, this joint is subjected only to: (1) external tension forces "T" tending to separate the plates against bolt clamping force "P"; (2) shear forces "S" tending to make plates slip against friction resistance "F".

"F" increases when "P" does. With enough clamping force applied, shear loads transfer from one plate to the other without slippage. And when clamping force always exceeds tensile forces, plates obviously cannot separate. There can be no further stretch on bolt. Its load stays static at preload "P", even when external loads are dynamic.

UNIFORM CONTROL OF PERFORMANCE

RB&W high strength bolts allow a high magnitude of clamping force to be applied ... and uniformly so. Materials conform to ASTM specifications. Applying known torques to nut produces uniform bolt tensions. Riveting by contrast, depends on difficult-to-control variables.

MORE STRENGTH OVERALL

For shear-resistance, riveted joints offer only the actual rivet shear strength. Don't count too much on friction even though rivets exert some grip as they cool. Compare: a 1-inch bolt tightens to a tension of 42,000 lbs; a 1-inch rivet develops 22,000 lbs at best.

The higher residual tension does more than make a joint much stronger in shear and in tension. It also protects the bolt against fatigue caused by stress-reversing cycles such as vibration; keeps the bolt from loosening, too.

All this explains why, under heavy dynamic loads, rivets can loosen, elongate holes, often fail, requiring difficult replacement; but high strength bolts stand up. They can keep connections permanently tight on vibrating machinery, heavy duty conveyors, and trans-

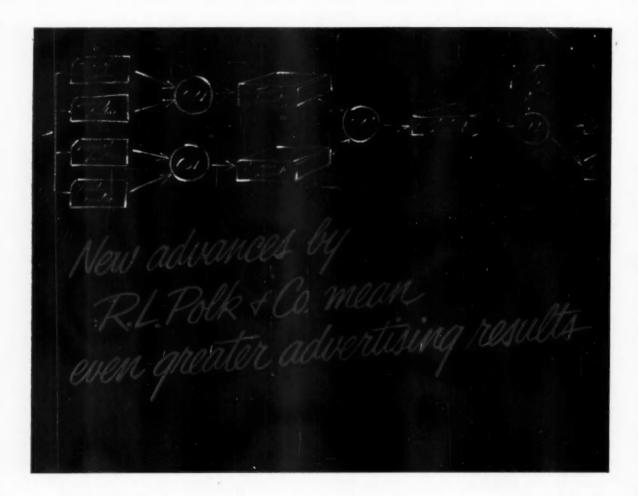
Talk it over with an RB&W fastener expert. Russell, Burdsall&Ward Bolt and Nut Company, Port Chester, N. Y.

portation equipment.

RBAW high strength bolts are from selected grade of medium carbon steel with proper combination of ductility and tensile strength; conform to ASTM A325.



Plants at: Port Chester, N.Y.; Coraopolis, Pa.; Rock Falls, Ill.; Los Angeles, Calif. Additional sales offices at: Ardmore (Phila.), Pa.; Pittsburgh; Detroit; Chicago; Dallas; San Francisco.



Once more R. L. Polk & Co. leads the way in further increasing the effectiveness of mail advertising . . . a medium already proved the most selective, best read, best remembered and most persuasive.

With one of the nation's largest dataprocessing installations, R. L. Polk & Co. can now select . . . electronically and automatically . . . specific individuals or groups that comprise your prime market. Selection is made from the 60 million families who are America's most active buyers.

Other new electronic equipment, much of it designed and perfected by Polk's own engineers, permits accurate, high-speed addressing, handling and mailing of your advertising messages.

These developments further underscore R. L. Polk & Co. leadership in mail advertising. This leadership has been maintained by such Polk accomplishments as the client-agency-publisher concept of mail advertising . . . the most comprehensive research of the medium . . . the performance of custom, high-volume work for many of the nation's leading advertisers.

This know-how is at your direction—to make your 1959 merchandising more productive.

R·L·POLK & CO.

publishers

431 Howard Street • Detroit 31, Michigan



CHICAGO

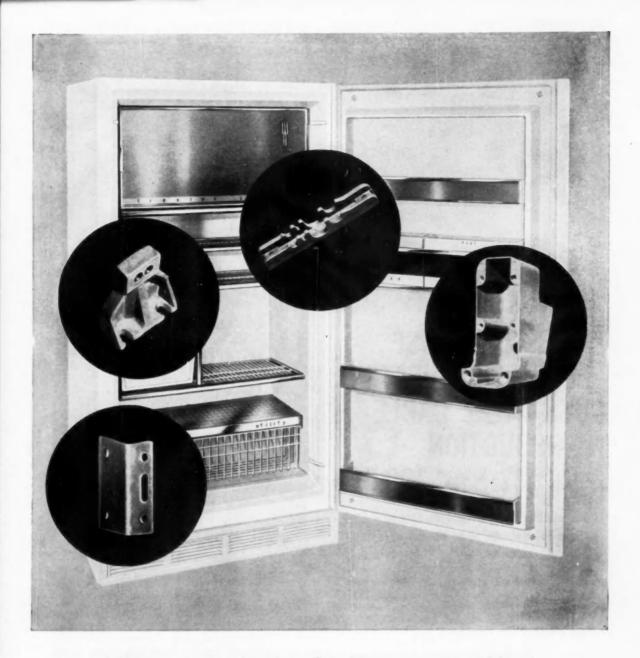
CLEVELAND

NEW YORK

PHILADELPHIA

ST. LOUIS

TRENTON



Kelvinator gets big benefits from premix moldings

Premix moldings are making an important contribution to performance of Kelvinator refrigerators.

Strike mounting plates, tie-straps, tubing retainers and lock housings for the Kelvinator are all premix moldings. They've proved tough and resilient . . . excellent shock absorbers. And their thermal insulating properties contribute to the economical operation of the refrigerator.

When resins and reinforcing fibers are blended beforehand,

moldings are stronger, wall thicknesses more uniform, weak spots are eliminated. Small and large, simple and complex, premix moldings are not only improving products but cutting costs for hundreds of manufacturers.

If your product calls for strong, rigid, reinforced plastics, look into premix moldings made with Dow vinyltoluene or Dow styrene. Get the names of molders and suppliers from your nearest Dow sales office or write to THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Dept. 2207H-2.

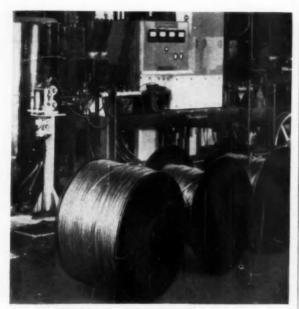
YOU CAN DEPEND ON



Automotive Industries, December 15, 1958

Circle 169 on Inquiry Card for more data

93



J-35007

WESTINGHOUSE INDUCTION HEATER CUTS STEEL CABLE PRODUCTION COSTS BY \$100,000

Automatically Stress Relieves Stranded Steel Cable for National Road Building Program

Expensive, contaminating lead pot is eliminated by continuous induction heating process which produces consistent, electronically controlled, 600° F temperature in every foot of cable as it moves from strander to take-up reel at speeds up to 250 feet per minute. First year savings are paying for the user's investment in this unique Westinghouse installation.

How Operation Compares With Other Heating Methods

- Initial cost was only 25% of other methods.
- Operating cost was reduced by 92% compared with lead pot.
- Required approximately 80% less floor space.
- No additional operator, no additional material handling, no unpleasant fumes, no special maintenance.
- Accurate temperature control—±10°F at full speed.

For an analysis of your operation by a Westinghouse engineering team . . . call or write:

Westinghouse Electric Corporation, Induction Heating Department 2519 Wilkens Avenue, Baltimore 3, Maryland, EDmondson 6-2300

YOU CAN BE SURE ... IF IT'S Westinghouse

Watch "Westinghouse Lucille Ball-Desi Arnaz Shows" CBS-TV Mondays

USE THE FINEST!

Specify Vellumoid for the finest in gaskets and gasket sets . . . job matched to your specific requirements. Vellumoid now offers Cylinder Head, Manifold, Exhaust Flange Gaskets and Overhaul Sets to assure trouble-free superior performance.

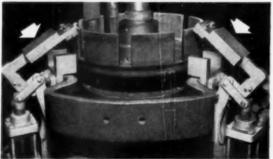
Ask your jobber about Coppermoid . . . He knows quality.

THE VELLUMOID COMPANY

Worcester, Massachusetts

Circle 171 on Inquiry Card for more data

BIG--for big jobs



NEVER SEND A BOY-here's the Knu-Vise clomp AO-200.

LAPEER CLAMPS FOR ARC WELDING

In the plant of a midwestern automotive parts manufacturer, an operated Knu-Vise clamps are an important part of a work holding fixture for are welding. Shown is the operation where center hubs are welded into the high clutch splitter housing for automatic truck transmissions.

No job for a panty-waist, the husky Lapeer clamps have to grab securely—hold rigidly—let go instantly. They are part of a family of more than 150 models of clamps and pliers designed to do a tremendous number of holding jobs. Some are air-operated, others hand operated. All of them do workhorse jobs in industry holding big parts, small parts, unwieldy parts. Write today for more information.

Manufacturers of over 150 models of manually and air-operated clamps and pliers

KNU-VISE PRODUCTS

LAPEER MANUFACTURING CO.

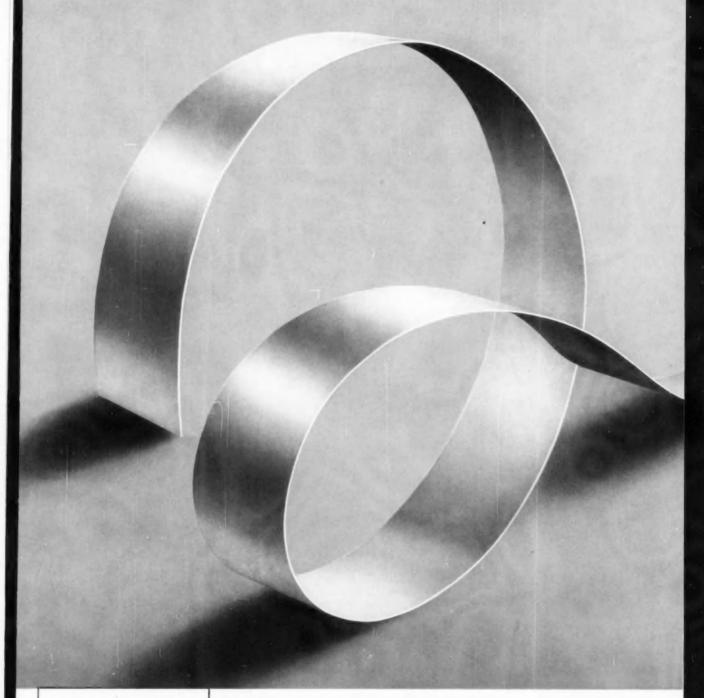
3041 DAVISON ROAD

Western Div.: Peck and Lewis Corporation 4436 Long Beach Ave., Los Angeles 58, Calif., AD 3-7146. Canadian Div.: Higginson Equip. Sales Ltd., 1131 Pattit Road, Burlington, Ontario

Circle 172 on Inquiry Card for more data

stainless strip-that reflects your specifications

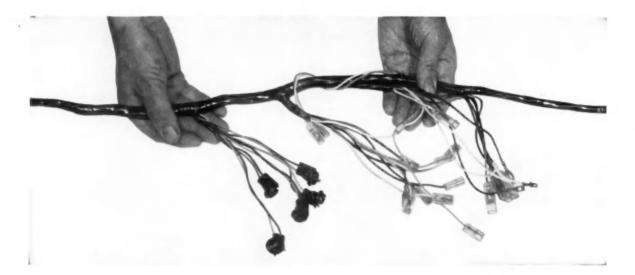
Call Crucible to fulfill strict specifications for lustrous finish, uniform quality and gauge in stainless strip. For Crucible produces finishes of incomparable lustre by precision-rolling each coil on modern mills. Exact quality and gauge are consistently ensured because Crucible methodically checks each heat, measures gauges continuously with electronic controls. So why settle for less than strip that reflects your high standards? Call Crucible—a leading producer of stainless in gauges to .010" and in all widths. Or write: Crucible Steel Company of America, The Oliver Building, Mellon Square, Pittsburgh 22, Pa.



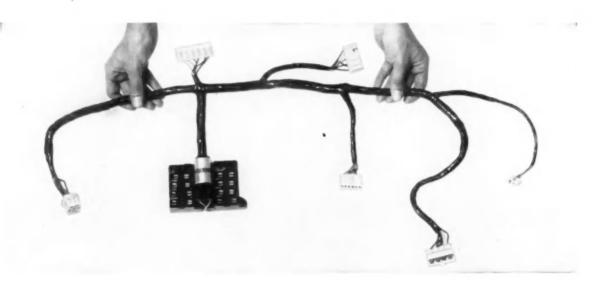
CRUCIBLE

STEEL COMPANY OF AMERICA

Canadian Distributor - Railway and Power Engineering Corp., Ltd.



GOOD / Wiring harness unites many individual cables



BETTER / Packard wiring system reduces end-product cost

Packard Electric engineers, like the clients with whom they work, are never satisfied. They strive continually to make their products less expensive and easier to use. Now they've made it possible for the already efficient automotive wiring harness to become an even more complete sub-assembly! For less than it would cost to purchase components separately, they can usually be supplied already connected as an integral part of the

harness. And single terminals can be replaced by "Snap Fast" multipleconnectors, fuse blocks and other cost-saving components.

If your present wiring harnesses do not include these cost-saving advantages, ask Packard engineers to help work out modern wiring systems for you. Packard Electric, the world's largest producer of automotive wiring systems, has sales and engineering offices in Detroit, Chicago, and Oakland, California.



"Live Wire" division of General Motors



PRODUCTS GUIDE

- ► PARTS and COMPONENTS
- ► PRODUCTION and PLANT EQUIPMENT
- MATERIALS and SUPPLIES

for

Manufacturing
Automotive and Aviation Products

INDEX TO PRODUCT INFORMATION

The Products Guide is arranged in two sections for your convenience. The "Index to Product Information" lists alphabetically, by product, the companies which are providing more complete information on their products and services through advertisements in this issue. Page numbers show location of these advertisements in this issue.

Companies listed without page numbers are not appearing in this issue but have advertised in other A. I. issues during 1958.

If the product is not listed in this index section, turn to the "Products Guide Section" on page 103 for complete listings of products, manufacturers, addresses and brand names.

CLAMPS, Hose

ABRASIVES Norton Co 8-9	
ADAPTERS, Drive AC, The Electronics Div. of GM123, 151, 207, 209	
ADDITIVES, Chrome Plating Udylite Corp.	
ADDITIVES, Oil and Lubricant Enjay Co	
ALLOYS, Chromium Metal & Thermit Corp.	
ALLOYS, Magnesium Dow Chemical Co.	
ALLOYS, Nickel (Steel) International Nickel Co.	
ALLOYS, Vanadium Vanadium Corp. of America	
ALUMINUM, Sheet, Rod and Ingot Aluminum Co. of America	
AMMETERS, Instrument Board AC The Electronics Div. of GM123, 151, 207, 209	
King-Seeley Corp. ANALYZERS, Combustion General Electric Co. Apparatus Dept.	1
AXLES, Front and Rear	
Clark Equipment Co. Dana Corp. (Spicer) Rockwell-Standard Corp. Transmission &	1
Axle Div. 5 Shuler Axle Co. 119 AXLES, Trailer	-
AALLS, II GO	
Shuler Axle Co 119	-
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co.	
BALLS, Bearing Coolidge Corp.	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc.	•
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc.	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc.	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Actna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Actna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Onkite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Actna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Goolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Aetna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Onkite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Aetna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Onkite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Magul-Bower Bearings 59 New Departure Div. GM Back Cover SKF Industries, Inc 109 BEARINGS, Clutch Throwout Actan Ball & Roller Bearing Co. BEARINGS, Roller Actan Ball & Roller Bearing Co. Hyatt Bearings Div. GM SKF Industries, Inc 109 Timken Roller Bearing Co. BEARINGS, Roller (Needle) Nadella (France)	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Onkite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Onkite Products, Inc. BEARINGS, Ball Actan Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	
BALLS, Bearing Coolidge Corp. Strom Steel Ball Co. BARRELS, Burnishing and Tumbling Oakite Products, Inc. BEARINGS, Ball Actna Ball & Roller Bearing Co. Bearings Co. of America Div. of Federal- Mogul-Bower Bearings	4

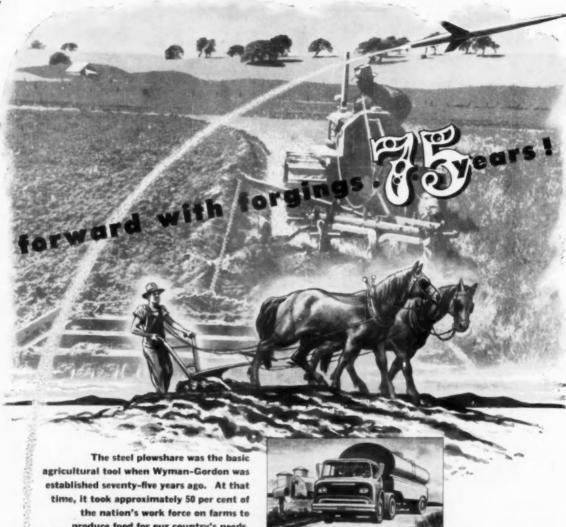
audicoco and
BLUE, Mechanics
Dykem Co 86 BOLTS
Buffalo Bolt Co. Russell, Burdsall & Ward Bolt & Nut
Co. 91 Southern Screw Co. 61 Townsend Co.
BONDERIZING and PARKERIZING
Parker Rust Proof Co
Miller Fluid Power Div. of Flick-Reedy Corp. 55
BRAKES Automotive & Aircraft Div. American
Chain & Cable Co. Auto Specialties Mfg. Co
Brake Co. 68-69 Eaton Mfg. Co., Dynamatic Div. Fawick Brake Div., Fawick Corp. Midland-Ross Corp.
Rockwell-Standard Corp. 119 Shuler Axle Co
BREAKERS, Circuit
Fasco Industries, Inc. Tung-Sol Electric, Inc., Electroswitch Div. 46 Westinghouse Electric Corp.
BROACHES Continental Tool Works National Broach & Machine Co.
BRUSHES, File Cleaning
Osborn Mfg. Co. BURS
BUSHINGS, Jig (Drill)
Ex-Cell-O Corp. CABLE, Brake Control Bergen Wire Rope Co.
Bergen Wire Rope Co. CABLES SETS
Packard Electric Div., GM 96
CAPS, Crankcase Breather, Filler AC The Electronics Div. of GM123, 151, 207, 209
CAPS, Radiator Eaton Mfg. Co., Stamping Div.
CARBIDE, Cemented
Carmet Cemented Carbide Div. of Alle- gheney Ludlum Steel Corp 90
CARBURETORS, Butone, Propane, LPG Beam Products Mfg. Co.
Century Gas Equipment Marvel-Schebler Products Div., Borg-Warner Corp 82 Ensign Carburetor Co.
CARBURETORS, Gasoline Carter Carburetor Div. of ACF
Eclipse Machine Div. Bendix Holley Carburetor Co.
Rochester Products Div. GM Zenith Carburetor Div. Bendix
CASTINGS, Die AC The Electronics Div. of GM123, 151, 207, 209
Doehler-Jarvis Div. National Lead Co.
CASTINGS, Iron Auto Specialties Mfg. Co
Co
CASTINGS Steel
Auto Specialties Mfg. Co
Auto Specialties Mfg. Co
CHAINS, Roller (Industrial) Diamond Chain Co.
CHAINS, Timing (Auto)
Link-Belt Co

American Stamping Co
CLAMPS, Muffler Clamps, Inc.
CLAMPS, Toggle LaPeer Mfg. Co.
CLAMPS, Welding LaPeer Mfg. Co
CLEANERS, Air AC The Electronics Div. of GM 123, 151, 207, 209
CLEANERS, Metal Detrex Chemical Industries. Inc 181 Oakite Products, Inc.
Pennsalt Chemical Corp. CLIPS, Cable and Tubing
Kickhaefer Mfg. Co. 229 CLOTH, Tracing Keuffer & Esser Co. 258
CLOTH, Wire
CLUTCHES, Auto, Truck and Bus Borg-Beck Div. Borg-Warner Corp 87
Dana Corp. Lipe-Rollway Corp. Rockford Clutch Div. Borg-Warner Corp.
CLUTCHES, Industrial Dana Corp. Formsprag Co.
Formsprag Co. Rockford Clutch Div. Borg-Warner Corp. 58 Twin Disc Clutch Co.
COATINGS, Protective (Metal Parts) Amchem Products, Inc
COCKS, Drain Imperial Brass Mfg. Co
COMPOUNDS, Cutting Fluid Standard Oil Co. (Indiana) Sun Oil Co. Texas Co.
COMPOUNDS, Phosphate Coating Amchem Products, Inc
COMPOUNDS, Rust Preventing and Removing
Amchem Products, Inc
COMPRESSORS, Air Chicago Pneumatic Tool Co
Clark Bros. Co. Midland-Ross Corp.
Midland-Ross Corp. Wagner Electric Corp. 57 CONNECTIONS, Steering Thompson Products, Inc.
CONNECTORS, Lamp and Wire
CONTROLLERS, Electric Motor Westinghouse Electric Corp.
CONTROLS, Electronic AC The Electronics Div. of GM
CONTROLS, Engine (Automatic) Synchro-Start Products. Inc. 135
CONTROLS, Engine (Automatic) Synchro-Start Products, Inc
CONTROLS, Hydraulic Denison Engrg. Div., American Brake Shoe Co
CONTROLS, Push-Pull
Chain & Cable Co. Richland Auto Parts Corp
Automotive & Aircraft Div., American Chain & Cable Co. Richland Auto Parts Corp. 135 Superior Screw & Mfg. Co. 135 CONTROLS, Refrigeration Controls Co. of America

COUPLINGS, Fluid (Machinery) COUPLINGS, Fluid
Dynamatic Div., Eaton Mg. Co. COUPLING, Fluid (Machinery) From Div. Chairs Co. COUPLING, Fluid (Machinery) From Div. Chairs Co. COVERS, Oil Hele Corp. Brown Mig. Co. COVERS, Oil Hele Corp. Brown Mig. Co. COVERS, Oil Hele Corp. Oil and Greene American Stamping Co. CUPS, Oil and Greene American Stamping Co. CUPS, Oil and Greene CUPTERS, Milling Machine Co. Viking Tool Co. SF Miles Corp. Commission Co. SF Miles Corp. SF Miles Corp. Distributor Corp. Viking Corp. Distributor Corp. Viking Corp. Distributor Corp. Distributor Corp. Viking Tool Co. SF Miles Corp. Distributor Corp. Viking Tool Co. SF Miles Corp. Distributor Corp. Viking Tool Co. SF Miles Corp. Distributor Corp. Viking Tool Corp. Distributor Corp. Viking Corp. Distributor Corp. Viking Corp. Distributor Corp. Viking Cor
COUPLINGS, Fluid Line Hassen Mir. Co. COVERS, Oil Mele COVERS, Oil and Grouse American Stamping Co. LTC Milling Incernal Mulling Machine Co. CUTTERS, Milling Incernal Mulling Machine Co. COLUMBERS, Air ond Hydroulic Milling Plant Power Div. Freis-Beetly Corp. Tomation John Milling Machine Co. Corp. College Milling Machine Co. Corp. Corp. College Milling Machine Co. Corp. College
COVERS, Oil Mele Gills Rine Mir. C. Kickhafer Mir. C. Kickhafer Mir. C. Kickhafer Mir. C. CUTTE, Milling Internal Milling Int
CRANKSHAFTS Mg. C. 229
Central Promotory Dr. CM Wyman Gordon Co. CUPS. Oil and Grosse CUPS. Oil and Grosse CUTTERS, Milling Innervoil Milling Machine Co. Gills Rine. Mig. Co. CUTTERS, Milling Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Milling Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Linding Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Tabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. CUTTERS, Trabbing Innervoil Milling Machine Co. Innervial Brass Mig. Co. Cutters Milling Innervoil Milling Machine Co. Innervial Brass Mig. Co. Cutters Milling Innervoil Milling Machine Co. Interview Milling Machine Co. Interview Milling Innervoil Milling Machine Co. Interview Milling Innervoil Milling Machine Milling Machine Co. Interview Milling Interview Milling Interview Milling Interview Milling Interview Milling Interview Milling Interview
Wyman Gorden Co. 102 CUPS, Oil and Greese CUPS, Oil and Greese CUPS, Oil and Greese CUTTERS, Milling Ingered Milling Machine Co. CUTTERS, Milling Ingered Milling Machine Co. Ingered Brass Mark, Co. 151 CUTTERS, Tabelog Interest Brass Mark, Co. 152 CUTTERS, Tabelog Interest Brass Mark, Co. 152 CUTTERS, Tabelog Interest Brass Mark, Co. 153 CALIFORNIA Service Co. 154 CALIFORNIA Service Co. 155 CASING Service Co.
American Stampling Co. Gills Brow. Mig. Co. CUTTERS, Milling. CUTTERS, Milling. CUTTERS, Tabing. CUTTERS, Ta
CUTTERS, Tubing Imperial Brass Mig. Co
Signal Flare Div. Standard Rathway Fusee Corp. 151
CVLINDERS, Air and Hydroulic Miller Planis Power Dis-Friesklesdy 5 GOTHMAN MILLER Machine Co. APP. Mis. Comp. Co. DAMPERS, Vibration (Engine) Schwitzer Comp. World Bestos Div. Frestone DESIGNING and ENGINEERING DIS- DIS- DESIGNING and ENGINEERING DIS- DIS- DESIGNING Co. DIS- PESIGNING Co. DIS- PERMES, Auto (Pressed Steel) DIS- PESIGNING Co. DIS- PESIGN
Ortman-Miller Machine Co. Sr.P MR. Co. Microbinson Co. DAMPERS, Vibration (Engine) DAMPERS, Vibration (Engine) DAMPERS, Vibration (Engine) DESIGNING and ENGINEERING DESIGNING
DAMPERS, Vibration (Engine) Schwitzer Corp. DAMPERS, Vibration (Engine) Schwitzer Corp. DESIGNING and ENGINEERING DESIGNING and ENGINEERING DIES DIES DIES DIES DIES DIES DIES DIES
DAMPERS, Vibration (Engine) Schwitzer Curb. Pirestone DESIGNING and ENGINEERING Detroit Edison Co. DIES Daniy Machine Specialties, Inc. Eickharder Mfg. Co. Dies Co.
DESIGNING and ENGINEERING Detvoit Edison Co. DIFFERENTIALS, Auto Dana Corn. Vielan Tool Co. DIFFERENTIALS, Auto Dana Corn. Pairfield Misc. Distance Misc. Co. DIFFERENTIALS, Auto Dana Corn. Pairfield Misc. Distance Co. DIFFERENTIALS, But Dana Corn. DISTRIBUTORS, Industrial Co. Continental Diril Corn. DISTRIBUTORS, Industrial Color Industri
Detail Edison Co. Discription Discript
Danity Machine Specialties, Inc.
Differentials, Auto Dana Corp. Pairfield Mfg. Co
GAGES, Air Pressure Act The Electronics Div. of GM. 123, 151, Warner Auto Parts Div. Borg-Warney Corp. DISTRIBUTORS, Ignition Holley Carburetor Co. DRILLS, Portable Electric Black & Decker Mfg. Co. Chicago Preumatic Tool Co. 20 DRILLS, Twist Continental Drill Corp. DRIVERS, Screw (Portable Pneumatic) Cleeo Div. of Reed Roller Bit Co. 6 DRIVES, Starter (Aufo) Eclipse Machine Div. Bendix DRUMS, Broke Campbell, Wyant & Cannon Foundry Co. 125 ELEWATORS, Industrial Globe Hoist Co. 146 BRIGHES, Aircraff Herrmann Engrg. Co. ENGINES, Burdone and LPG Waukesha Motor Co. 1, 146 ENGINES, Diesel Allis-Chalmers Mfg. Co. Chicago Pneumatic Tool Co. 20 Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Casoline Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrayler Gorg. Waukesha Motor Co. 1, 145 ENGINES, Coated Cloth (For Parts) du Pont de Nemours & Co. E. I., Pabries Div. Ord Meachine Co. Waukesha Motor Co.
Warner Auto Parts Div. Borg-Warner Corp. DISTRIBUTORS, Ignition Holley Carburetor Co. DRILLS, Portable Electric Black & Decker Mig. Co. Chicago Pneumatic Tool Co
DISTRIBUTORS, Ignifion Holler Carburctur Co. DRILLS, Portable Electric Black & Decker Mfg. Co. Chicage Decker Mfg. Co. DRILLS, Twist Continental Drill Corp. DRIVERS, Screw (Portable Pneumatic) Cleeo Div. of Reed Roller Bit Co. Campbell, Wyant & Cannon Foundry Co. 125 ELEVATORS, Industrial Globe Hoist Co. ENGINES, Burfane and LPG Wankesha Motor Co. Chicago Pneumatic Tool
Black & Decker Mgr. Co. Chicago Pneumatic Tool Co. DRILLS, Twist Continental Drill Corp. DRIVERS, Screw (Portable Pneumatic) Cleeo Div. of Reed Roller Bit Co. Cambell, Wyant & Cannon Foundry Co. 125 ELEVATORS, Industrial Globe Holst Co. ENGINES, Aircraft Herrmann Engrg. Co. BRIGHES, Diesel Allia-Chalmers Mgr. Co. Chicago Pneumatic Tool Co. Checo Div. of Reed Roller Bit Co. ENGINES, Butane and LPG Walkesha Motor Co. Life ENGINES, Butane and LPG Walkesha Motors Corp. Sundschale Drill Corp. Seaf S. Steering Garrison Mgr. Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Sand Mgr. Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Sear & Tool Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Sear & Tool Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Sear & Tool Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Seaf S. Steering Garrison Mgr. Co. Checo Div. Seaf Seaf Seaf Dol Co. Saginav Steering Gar Div. GM Vickers Jine. Seaf Seaf Tool Co. Checo Div. Seaf S. Treet Bullard Co. World Bestos Div. Of Firestone LUBRICATORS, Portable Allenie Div. Stewart-Warner Motors Co. Checo Div. Seaf Seaf Tool Co. Sundary Machine C
DRILLS, Twist Continental Drill Corp. DRIVERS, Screw (Portable Pneumatic) Cleeo Div. of Reed Roller Bit Co. 6 DRIVES, Starter (Auto) Eclipse Machine Div. Bendix DRUMS, Brake Campbell, Wyant & Cannon Foundry Co. 125 ELEYATORS, Industriel Globe Hoist Co. 145 ENGINES, Butane and LPG Walkesha Motor Co. 146 ENGINES, Butane and LPG Walkesha Motor Co. 146 ENGINES, Diesel Allia-Chalmers Mfg. Co. 20 Continental Motors Corp. 78 Euriss-Wright Corp. 178 Walkesha Motor Co. 145 ENGINES, Gasoline Continental Motors Corp. 78 ENGINES, Gasoline Continental Motors Corp. 78 ENGINES, Industriel Continental Motors Corp. 78 ENGINES, Beader-Corp. 78 ENGINES, Industriel Continental Motors Corp. 78 ENGINES, Industriel Continental Motors Corp. 78 ENGINES, Industriel
Sturtevant Co., P. A. Waters Mig., Inc. DRIVERS, Screw (Portable Pneumatic) Cleeo Div. of Reed Roller Bit Co. 6 DRIVES, Starter (Auto) Eclipse Machine Div. Bendix DRUMS, Brake Campbell, Wyant & Cannon Foundry Co. 125 ELEVATORS, industried Globe Hoist Co. 145 ENGINES, Aircraft Herrmann Engr. Co. ENGINES, Diesel Allis-Chainers Mig. Co. Chicago Pneumatic Tool Co. 20 Continental Motors Corp. 75 Curtiss-Wright Corp. Waukesha Motor Co. 1, 145 ENGINES, Gasoline Continental Motors Corp. 75 Waukesha Motor Co. 1, 145 ENGINES, Gasoline Continental Motors Corp. 75 Waukesha Motor Co. 1, 145 ENGINES, Industried Chrysler Corps. Ford Motor Co. 1, 145 ENGINES, Industried Chrysler Corps. Ford Motor Co. 211 FABRIC, Coated Cloth (For Parts) Jul Pont de Nemours & Co., E. I. Fabries Div. FABRICATING SERVICE Roland, Teiner Co. ERSE SERVICE Roland, Teiner Co. 5 EASSES Sturtevant Co., P. A. Waters Auton Gold Co. 5 Cask SETS Armstrong Cork Co. 5 Gasket Co. 7 GEASCLINE Sun Oil Co. 5 GEAS, Flywheel Ring Wohlert Corp. 5 Saginaw Steering Gear Div. GM Vickers, Inc. 6 GEARS, Timing Continental Motors Corp. 75 Water Automotive Parts Div. Borg- Warrer Corp. 6 GEARS, Timing Continental Motors Corp. 75 Water Automotive Parts Div. Borg- Warrer Corp. 6 GEARS, Timing Continental Motors Co. 6 Saginaw Steering Gear Div. GM Vickers Inc. 6
Cleeo Div. of Reed Roller Bit Co. 6 DRIVES, Starter (Auto) Eclipse Machine Div. Bendix DRUMS, Brake Campbell, Wyant & Cannon Foundry Co. 125 ELEVATORS, Industrial Globe Hoist Co. 145 ENGINES, Aircraft Herrmann Engrg. Co. 145 ENGINES, Butane and LPG Waukesha Motor Co. 1, 145 ENGINES, Diesel Alins-Chalmers Mfg. Co. 20 Chicago Preumatic Tool Co. 20 Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. 664RS, Transmission Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. 664RS, Transmission Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. 664RS, Transmission Cotta Transmission Machine Tool Co. Co. Cincinnati Milling Machine Tool Co. Cross & Co. LaSalle Tool Inc. National Automatic Tool Co. Cross & Co. Cotta Co. Shyder Tool & Engrg. & Sales Co. National Automatic Tool Co. National Automatic
DRIVES, Starter (Aufo) Eclipse Machine Div. Bendix DRUMS, Brake Campbell, Wyant & Cannon Foundry Co. 125 ELEYATORS, Industrial Globe Hoist Co. 145 ENGINES, Aircraft Herrmann Engrg. Co. ENGINES, Butone and LPG Waukesha Motor Co. 1, 145 ENGINES, Diesel Allia-Chalmers Mig. Co. 20 Continental Motors Corp. 78 Cuntiss-Wright Corp. Waukesha Motor Co. 1, 145 ENGINES, Gasoline Continental Motors Corp. 78 Cuntiss-Wright Corp. Waukesha Motor Co. 1, 145 ENGINES, Industrial Chirago Pneumatic Tool Co. 20 Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Farfield Mig. Co. 32 Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Ford Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Ford Motor Co. 20 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Ford Motor Co. 20 Waukesha Motor Co. 21 FABRIC, Cooted Cloth (For Parts) du Pont de Nemours & Co., E. I., Fabrics Div. 81 FABRICATING SERVICE Roland, Teiner Co. 58 Roland, Teiner Co. 58 REASE ENGINES, Stering Garket & Mig. Co. 94 Ke Gasket Co. 95 Ke Gasket Co. 95 Ke Gasket Co. 95 Ke Gasket Co. 96 Ke Corp. 96 Ke Gasket Co. 96 Ke Gasket Co. 96 Ke Corp. 96 Ke Ris, Tremmission Corp. 96 Ke Ris, Tremmission Cotta Transmission Co. 96 Ke Corp. 97 Ke
Vellumoid Co. 94 ELEVATORS, industrial Globe Hoist Co. 145 ENGINES, Aircraft Herrmann Engrg. Co. ENGINES, Butane and LPG Walkesha Motor Co. 1, 145 ENGINES, Diesel Allia-Chalmers Mfg. Co. Chicago Pneumatic Tool Co. 20 Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Gasket Co. 94 Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Industrial Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Industrial Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Industrial Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Industrial Continental Motors Corp. 78 Walkesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Ford Motor Co. 211 FABRIC, Coated Cloth (For Parts) du Pont de Nemours & Co. 211 FABRIC, Coated Cloth (For Parts) du Pont de Nemours & Co. 211 FABRIC, Tons Marchine Co. 211 FABRIC, Tons Marchine Co. 211 FABRIC, Tons Marchine Co. 211 FABRIC, Tons Mig. Co. 98 Warner Automotive Parts Div. Borg- Warner Corp. Warner Motors Co. 98 Warner Motor Co. 98 Warner Motor Co. 98 Warner Motor Co. 100 Warner Automotive Parts Div. Borg- Warner Corp. Warner Corp. Warner Ord. 98 Warner Corp. Warner Corp. Warner Corp. Warner Corp. Warner Motor Co. 98 Warner Motor Co. 98 Warner Motor Co. 98 Warner Motor Co. 98 Warner Corp. Warne
GASOLINE Globe Hoist Co
ENGINES, Butane and LPG Waukesha Motor Co
ENGINES, Butone and LPG Waukesha Motor Co
ENGINES, Diesel Allis-Chalmers Mfg. Co. Chicago Pneumatic Tool Co. 20 Continental Motors Corp. 78 Courtiss-Wright Corp. Waukesha Motor Co. 145 ENGINES, Gesoline Continental Motors Corp. 78 Waukesha Motor Co. 145 ENGINES, Industriol Chrysler Corp. Ford Motor Co. 145 Chrysler Corp. Ford Motor Co. 421 FABRIC, Coated Cloth (For Parts) du Pont de Nemours & Co., E. I., Fabrics Div. 81 FABRICATING SERVICE Roland, Teiner Co. 82 Roland, Teiner Co. 83 Raginaw Steering Gear Div. GM Vickers, Inc. Saginaw Steering Gear Div. GM Saginaw Steering Gear Div. GM Saginaw Steering Gear Div. GM Saginaw Steering Corp. Saginaw Steer
Chicago Pneumatic Tool Co. 20 Continental Motors Corp. 78 Curtiss-Wright Corp. Waukesha Motor Co. 1, 145 ENGINES, Gasoline Continental Motors Corp. 78 Waukesha Motor Co. 1, 145 ENGINES, Industrial Chrysler Corp. Ford Motor Co. Waukesha Motor Co. Watorner Automotive Parts Div. Borg- Warner Automotive Parts Div. Borg- Warner Corp. W
Waukesha Motor Co
Cotta Transmission Co. Continental Motors Corp
ENGINES, Industrial Chrysler Corp. Ford Motor Co. Waukesha Motor Co. Waukesha Motor Co. EXCHANGERS, HEAT Yates-American Machine Co
Chrysler Corp. Ford Motor Co. Waukesha Motor Co. Waukesha Motor Co. EXCHANGERS, HEAT Yates-American Machine Co
Waukesha Motor Co. EXCHANGERS, HEAT Yates-American Machine Co
Yates-American Machine Co
FABRIC, Coated Cloth (For Parts) du Pont de Nemours & Co., E. I., Fabrics Div
FABRICATING SERVICE Roland, Teiner Co. GREASE GREASE Holley Carburetor Co. King-Seeley Corp. Synchro-Start Products, Inc
Roland, Teiner Co. Synchro-start Products, inc. 130 Greenlee Bros. & Co. 15 GREASE LeBlond Machine Tool Co., R. K.
PACINGS, Ciurch Rawbestos Manhattan Inc. Dow Corning Corp. New Britain-Gridley Machine Div., New
Rockford Clutch Div., Borg. Warner Corp.
FANS, Radiator Grinders, Fortable Electric Chicago Pneumatic Tool Co. MACHINES, Boring (Vertical) New Reits in Gridley Machine Div. News
Schwitzer Corp. Rammers, Fower Chambershurg Fower
Fastex Div. Illinois Tool Works HARDWARE, Auto and Truck Body
FASTENERS, Sheet Metal Attwood Brass Works, Inc
United-Carr Fastener Corp. Evans Products Co. MACHINES, Boring, Drilling, Topping
FELT Continental Felt Co

MACHINES, Boring and Turning Bullard Co.	MIRRORS, Rear Vision Guide Lamp Div of GM	PRESSES, Hydraulic Clearing Machine Corp64-65
MACHINES, Boring, Turning and	MOTORS, Electric	Denison Engrg. Div. American Brake Shoe Co
Facing Heald Machine CoSecond Cover	MOTORS, Hydraulic	Elmes Engrg. Div. American Steel Foun- dries Verson Allsteel Press Co.
Olefsson Corp. MACHINES, Broaching	Denison Engrg. Div., American Brake Shoe Co	PRESSES. Mechanical
Cincinnati Milling Machine Co. Foote-Burt Co	MOTORS, Starting (Electric) Delco-Remy Div. of GM	Bliss Co., E. W. Clearing Machine Corp
Osborn Mfg. Co.	NICKEL International Nickel Co.	PRESSES, Sheet Metal Working
MACHINES, Chucking New Britain Machine Co.	NUTS Southern Screw Co 61	Alpha Press & Machine, Inc. Clearing Machine Corp
MACHINES, Cutting-Off Yoder Co. 80	NUTS, Lock and Self-Locking National Screw & Mfg. Co. Palnut Co.	Danly Machine Specialties, Inc. Federal Machine & Welder Co
MACHINES, Degreasing and Washing Detrex Chemical Industries, Inc 181	Republic Steel Corp. Standard Pressed Steel Co.	Verson Allsteel Press Co. PRESSES, Welding
MACHINES, Drilling, Reaming, Tapping Baush Machine Tool Co. Bullard Co.	Tinnerman Products, Inc. NUTS, Welding Midland-Ross Corp.	Federal Machine & Welder Co
Ex-Cell-O Corp. Foote-Burt Co. Greenlee Bros. & Co	OILERS, Sight Feed Gits Bros. Mfg. Co.	AC The Electronics Div. of GM123, 151, 207, 209 PUMPS, Hydraulic (Auto, Truck, Etc.)
Kingsbury Machine Tool Corp. MACHINES, Flame Cutting	OILS, Quenching	Denison Engrg. Div. American Brake Shoe Co
Cogmatic Div., Seaman-Andwall Corp. MACHINES, Forging	Sun Oil Co. PACKING	Eaton Mfg. Co., Pump Div. Hydreco Div. New York Air Brake Co 79
Hill Acme Co. MACHINES, Gear Cutting, Hobbing, Shaving	Continental Felt Co	PUMPS, Hydraulic (Machine Tool, Etc.) Chicago Pneumatic Tool Co
Fellows Gear Shaper Co. Lees-Bradner Co. Michigan Tool Co.	PANELS, Instrument AC The Electronics Div. of GM123, 151, 207, 209	Hydreco Div. New York Air Brake Co 79 Tuthill Pump Co. Vickers, Inc.
National Broach & Machine Co. MACHINES, Grinding Blanchard Machine Co.	King-Seeley Corp. PARTS, Metallic Powder Chrysler Corp., Amplex Div.	PUMPS, Oil Circulating (Engine) Melling Tool Co
Cincinnati Grinders, Inc. Foote-Burte Co. Gear Grinding Machine Co.	Moraine Products Div. of GM Stackpole Carbon Co.	PUMPS, Water Circulating (Auto) Wohlert Corp
Heald Machine Co. Norton Co.	PARTS, Steering Gear Cleveland Steel Products Corp.	RADIATORS, Engine Cooling Auto Radiator Mfg. Co.
Sheffield Corp. MACHINES, Grinding and Polishing	PARTS, Truck Body (Plastic) Molded Fibre Glass Body Co.	G & O Mfg. Co. Yates-American Machine Co
Hill Acme Co. MACHINES, Honing	PENCILS, Marking (China) Blaisdell Pencil Co.	Young Radiator Co. RAMPS, Truck Loading
Micromatic Hone Corp	PINS, Piston Burgess-Norton Mfg. Co	Globe Hoist Co
Allis-Chalmers, Industrial Equipment Div. Lindberg Engrg. Co	PIPE, Steel Youngstown Sheet & Tube Co.	Rockford Clutch Div. Borg-Warner Corp. 58 REGULATORS, Air Pressure
MACHINES, Lapping Norton Co.	PISTONS Gillette & Eaton, Inc.	Norgren Co., C. A. REGULATORS, Generator, Current
MACHINES, Marking (For Metal) Lectroetch Co.	Sterling Aluminum Products, Inc. United Engine & Machine Co. Zollner Corp	and Voltage (Auto) Delco-Remy Div. of GM King-Seeley Corp.
MACHINES, Milling Cincinnati Milling Machine Co.	PLASTICS, Foam National Aniline Div., Allied Chemical	REGULATORS, Humidity Minneapolis-Honeywell Regulator Co.
Davis & Thompson Co. Kent-Owens Machine Co. Lees-Bradner Co.	Plastic Corp. 21 PLASTICS, Laminated (Phenolic, Etc.)	REGULATORS, Oil Temperature Yates-American Machine Co
Sundstrand Machine Tool Co. MACHINES, Painting (Spraying)	PLASTICS, Material (Phenolic, Etc.)	RESINS, Synthetic Raybestos-Manhattan, Inc., Adhesive Dept.
Ransburg Electro-Coating Corp. MACHINES, Plating Allied Research Products, Inc.	Dow Chemical Co	RINGS, Piston McQuay-Norris Mfg. Co. Perfect Circle Corp.
General Electric Co. (Rectifiers) Udylite Corp.	PLASTICS, Molded (Phenolic, Etc.)	Sealed Power Corp. Wausau Motor Parts Co.
MACHINES, Punching Richards Co., J. A	Dow Chemical Co	RINGS, Retaining, Snap and Spacer Industrial Retaining Ring Co. Ramsey Corp.
Chicago Pneumatic Tool Co. Milford Rivet & Machine Co	woodall Industries, Inc.	Waldes-Kohinoor, Inc. RINGS AND SEALS, Oil and Grease Retaining
MACHINES, Roll Forming Yoder Co	PLASTICS, Sheets, Rods, Tubes Celanese Corp. of America	Chicago Rawhide Mfg. Co. Copeland-Gibson Products Corp
MACHINES, Sheet Metal Working Ex-Cell-O Corp. McKay Machine Co.	Continental-Diamond Fibre Co	National Seal Div., Federal-Mogul-Bower Bearings, Inc. 12 Tru-Seal Div., Flick-Reedy Corp. Victor Mfg. & Gasket Co 7
Wean Equipment Co. MACHINES, Spline Roller	PLATES, Surface and Base Lake Shore, Inc.	RIVETS Milford Rivet & Machine Co
Michigan Tool Co. MACHINES, Testing (Cylinder Head)	PLATFORMS, Lift Truck Globe Hoist Co	RODS, Push
Beach Engrg., Inc. MACHINES, Thread Cutting, Grinding	PLATING, Chromium, Cadmium-Nickel Attwood Brass Works, Inc	Wohlert Corp
Ex-Cell-O Corp. Hill Acme Co.	PLUGS, Core Hole and Expansion Kickhaefer Mfg. Co	Phoenix Mfg. Co. RUBBER, Silicone
MACHINES, Tube Making McKay Machine Co. Yoder Co	PLUGS, Spark AC The Electronics Div. of GM123, 151,	Dow Corning Corp. Goshen Rubber Co. Silicones Div., Union Carbide Corp.
MACHINES, Wire Splicing AMP, Inc.	PREAMPLIFIERS	RUBBER, Synthetic Acadia Div., Western Felt Works
METALS, Perforated Harrington & King Perforating Co.	Sanborn Co. PRESSES, Forging	Chicago Rawhide Mfg, Co.
METERS or ODOMETERS	Ajax Mfg. Co. Clearing Machine Corp	Enjay Co

SAFETY EQUIPMENT, Vehicle American Automatic Devices Co 173	Republic Steel Corp	TOOLS, Tube Floring Imperial Brass Mfg. Co
SCREWS, Ball Bearing Saginaw Steering Gear Div., GM.	STEEL, Glass Protected Smith Corp., A. O.	Proto Tools
SCREWS, Cap and Set Ferry Cap & Set Screw Co.	STEEL, Sheet	TORCHES, Welding Linde Co.
Set Screw & Mfg. Co	Alan Wood Steel Co. Afmco Steel Corp. Bethlehem Steel Co	TRACTORS, Industrial (Gasoline) Yale & Towne Mfg. Co.
SCREWS, Self-Tapping	Bothlehem Steel Co	TRANSMISSIONS, Auto and Truck Clark Equipment Co.
Continental Screw Co. Southern Screw Co	Weirton Steel Co. Youngstown Sheet & Tube Co.	Cotta Transmission Co. Dana Corp. (Spicer)
SCREWS, Valve Tappet Adjusting Ferry Cap & Set Screw Co.	STEEL, Spring	TRANSMISSION, Industrial
SCREWS, Wood Southern Screw Co	American Steel & Wire Div. United States Steel Corp	Fuller Mfg. Co
SCREWS and ROLTS, Self-Locking	Roebling Sons Corp., John A. Superior Steel Corp.	Hyster Co. Yale & Towne Mfg. Co.
National Screw & Mfg. Co. Russell, Burdsall & Ward Bolt & Nut Co.	STEEL, Stainless	TUBES, Spacer
SEALANTS, For Bolts and Nuts American Scalanta Co.	Allegheny Ludium Steel Corp. Byers Co., A. M. Copperweld Steel Co.	Federal-Mogul Div., Federal Mogul-Bower Bearings, Inc. 33
SEATS, Auto, Truck and Tractor Milsco Mfg. Co. Perma Seating Co. 221	Crucible Steel Co. of America 95 McLouth Steel Corp. 45 Republic Steel Corp. 84-85 Ryerson & Son, Inc., Joseph T. 36	TUBING, Synthetic Material United States Gasket Co. TUBING, Steel Babeock & Wilcox Co
Rockwell-Standard Corp. 5 SEATS, Volve	Sharon Steel Corp. Superior Steel Corp	Bundy Tubing Co
Wausau Motor Parts Co. SETTERS, Stud. Nut. Bolt and Screw	United States Steel Corp. STEEL, Strip	Republic Steel Corp.
Cleco Div., Reed Roller Bit Co 6	Great Lakes Steel Corp. Inland Steel Co.	Rochester Products Div. GM Ryerson & Son, Inc., Joseph T 35 Standard Tube Co.
SHAFTING, Flexible AC The Electronics Div. of GM123, 151.	Ryerson & Son, Inc., Joseph T 36 Youngstown Sheet & Tube Co.	Superior Tube Co. Timken Roller Bearing Co.
Stewart Mfg. Corp., F. W. Stow Mfg. Co.	STEEL, Tcol Allegheny Ludlum Steel Corp.	TURBOCHARGERS, Engine AiResearch Industrial Div. Garrett Corp.
SHAFTS, Propeller Cleveland Steel Products Corp.	Capewell Mfg. Co. Copperweld Steel Co.	Schwitzer Corp. Thompson Ramo Wooldridge Inc. Jet Div.
U. S. Axle Co. SHEARS, Slitting	Sharon Steel Corp. STRAINERS, Gasoline or Oil	UNITS, Threading (Transfer Machine) Sheffield Corp.
Yoder Co		UNITS, Tool Control
SHOCK ABSORBERS Monroe Auto Equipment Co.	Michigan Wire Cloth Co 233	Royal Design & Mfg. Inc. VALVES, Engine Poppet
SIGNALS, Excess Speed King-Seeley Corp.	STRIPS, Weather (Windshield, Window) Inland Mfg. Div. of GM	Eaton Mfg. Co. Valve Div. Thompson Products Co.
SIGNALS, Oil Level Warning King-Seeley Corp.	SWITCHES, Air Filter Replacing Fulton Sylphon Div. Robertshaw-Fulton	VALVES, Flow Control Vickers, Inc.
SILENCERS, Carburetor Intake AC The Electronics Div. of GM123, 151, 207, 209	Controls Co. SWITCHES, Low Pressure Indicating Fasco Industries, Inc.	VALVES, Fluid Power Control Kalamazoo Div. New York Air Brake Co. VALVES, Needle
SILICONE FLUIDS Dow Corning Corp	King-Seeley Corp. SWITCHES, Starter (Automatic)	Imperial Brass Mfg. Co
SLEEVES, Cylinder	Synchro-Start Products, Inc	Schrader's Son, Inc., A.
Campbell, Wyant & Cannon Fdry. Co 125 SOLENOIDS Synchro-Start Products, Inc	Cherry Electrical Products ' p. TACHOMETERS, Speed AC The Electronics Div. of GM123, 151.	VALVES, Two-Way, Three-Way, Etc. Imperial Brass Mfg. Co
SOLVENTS, Oil, Grease Removing Detrex Chemical Industries, Inc 181	King-Seeley Corp.	Valvair Corp. VENTILATORS, Cowl, Hood and Side
AC The Electronics Div. of GM128, 151,	TAKE-OFFS, Power Rockford Clutch Div., Borg-Warner Corp. 58	Service Products Corp 251
King-Seeley Corp. 207, 209	Tulsa Winch Div., Vickers, Inc. TANKS, Gasoline and Diesel (Auto)	VENTILATORS, Crankcase AC The Electronics Div. of GM123, 151, 207, 209
SPINDLES, Drilling and Grinding Ex-Cell-O Corp.	Anderson Co., O. L. TAPES, Insulating	WASHER SYSTEMS (Vehicle) Detrex Chemical Industries, Inc
SPRAYERS, Paint, Varnish and Lacquer Binks Mfg. Co. DeVilbiss Co.	Connecticut Hard Rubber Co. Kendall Co., Polyken Sales Div.	Wohlert Corp 251 WASHERS, Bronze
SPRINGS, Flat or Coil	TAPPETS, Valve Chicago Screw Co.	Cannon Bronze Corp
Accurate Spring Mfg. Co. Automatic Spring Coiling Co. Burton Auto Spring Corp	Eaton Mfg. Co., Saginaw Div. Johnson Products, Inc	WASHERS, Felt
Service Spring Co	TERMINALS, Wire AC The Electronics Div. of GM123, 151,	Continental Felt Co. WASHERS, Lock
SPRINGS, Leaf Burton Auto Spring Corp	THERMOCOUPLES 207, 209	Garrett Co., George K. Kickhaefer Mfg. Co. Thompson-Bremer & Co.
Detroit Steel Products Co. Mather Spring Co	Minneapolis-Honeywell Regulator Co. THERMOMETERS	WELDERS and EQUIPMENT, Electric
Service Spring Co	Minneapolis-Honeywell Regulator Co. THERMOSTATS, Heafer	Federal Machine & Welder Co 71 Sciaky Bros. Inc. Westinghouse Electric Corp.
American Stamping Co	Dole Valve Co. King-Seeley Corp.	WHEELS, Auto
Garrett Co., George K. Kickhaefer Mfg. Co	TOOLS, Cutting	Kelsey-Hayes Wheel Co. WHEELS, Grinding
Lansing Stamping Co. STAMPS and INKS, Steel	Carmet Cemented Carbide Div. of Allegheny Ludlum Steel Corp 90 General Electric Co., Metallurgical Dept.	Norton Co. 8-9 WINCHES, Truck
Matthews & Co., James H. STEEL, Alloy	Nobur Mfg. Co. Schrillo Aero Tool Engrg. Co.	Tulsa Winch Div. Vickers, Inc.
Bethlehem Steel Co. Byers Co., A. M. Great Lakes Steel Corp.	Viking Tool Co	WIRE, Steel Spring American Steel & Wire Div., United States Steel Corp.
Ingersoll Steel Div. Borg-Warner Corp.	Handicraft Tools, Inc. TOOLS, Portable Electric	National Standard Co.
Republic Steel Corp	Chicago Pneumatic Tool Co	WRENCHES, Nut and Bolt Proto Tools
Youngstown Sheet & Tube Co. STEEL, Bar	Buckeye Tools Corp. Chicago Pneumatic Tool Co	WRENCHES, Portable Pneumatic Thor Power Tool Co.
Copperweld Steel Co. La Salle Steel Co.	Cleco Div. of Reed Roller Bit Co 6 Thor Power Tool Co.	WRENCHES, Torque Sturtevant Co., P. A.



produce food for our country's needs,



With today's mechanical farm implements, it requires only 121/2 per cent to feed our people. The development of modern farm implements, motor cars, trucks and tractors, rai 'oad locomotives, and the "Mach era" aircraft and space vehicles, would have been impossible without forgings.

Whenever the ultimate is required in power, speed, endurance or reliability there is no substitute for a forging. Today, as for seventy-five years, Wyman-Gordon continues in the forefront in new forging developments.



YMAN-GORDON COMPANY

FORGINGS OF ALUMINUM . MAGNESIUM . STEEL . TITANIUM

WORCESTER MASSACHUSETTS HARVEY, ILLINOIS DETROIT, MICHIGAN

Circle 211 on Inquiry Card for more data

AUTOMOTIVE INDUSTRIES

PRODUCTS GUIDE SECTION

Arranged Alphabetically by Products

Products are listed alphabetically by the basic noun first, i.e., steel castings are listed under "Castings, Steel"; forging presses are found under "Presses, Forging," etc. Suggestions on how to best utilize the Product Guide and the Index to Product Information are found on page 98.

Cross indexing for general type of products is also

provided for quick location of specific items, i.e., "ACOUSTIC MATERIAL - See Insulation, Felt. Hair, Paper, etc.; also Pads, Insulation (Heat, Cold & Sound)."

When requests for product information are made to manufacturers listed herein, kindly mention the A. I. Froducts Guide as the listing source.

ABSORBENTS, Oil and Grease (Floor)

Cal-Flor Dry—See Flor-Dry Co Diversey Corp 1820 Roscoe St Chicago 13 Ill "Diversey Pickup" Dri-Sorb-See James H. Rhodes & Co Dri-Zit—See Waverly Petroleum Products

Dri-Zit—See Waverly Petroleum Products
Co.
Eagle-Picher Co American Bidg Central
Parkway Cincinnati 1 Ohio "Floor-Dry"
Floor-Dry—See Eagle-Picher Co
Flor-Dry Co 1821 University Ave St Paul 4
Minn "Cal-Flor-Dry" "Flor-Dry"
Metso 66—See Philadelphia Quartz Co
Oakite Products Inc 19 Rector St N Y N Y
Oil-Dri Corp of America 520 N Michigan Ave
Chicago III "Oil-Dri All Purpose"
Penn Drake Kwixorb—See Pennsylvania Refining Co.
Pennsylvania Refining Co., Butler Savings &
Trust Bidg., Butler, Pa. "Penn Drake
Kwixorb."
Philadelphia Quartz Co 1146 Public Ledger
Bidg 6th & Chestnut Sts Philadelphia 6 Pa
"Metso 66"
Rhodes & Co James H 153 W Hubbard St

"Metso 66"
Rhodes & Co James H 153 W Hubbard St
Chicago 10 III "Dri-Sorb"
Sol-Speedi-Dri-See Speedi-Dri Div
Speedi-Dri Div Minerals & Chemicals Corp
of America Essex Turnpike Menlo Park
N J "Sol-Speedi-Dri"
Waverly Petroleum Products Co 1724 Chestnut St Philadelphia 3 Pa "Dri-Zitt" "Waverly HI-Dri"
Wyandotte Chemicals Corp J B Ford Div
Wyandotte, Mich. "Wyandotte Zorball"

ABRASIVE TESTING INSTRUMENTS—See Instruments, Abrasive Testing

ABRASIVES—See Belts or Bands, Endless Abrasive (Industrial); Cloth, Abrasive Discs. Abrasive Grinding; Grit; Hones; Pa per, Abrasive; also Wheels, Grinding Abrasive

ACCELERATOR CONTROLS - See Controls,

ACCELERATOR PEDALS-See Pedals, Ac-

ACCELEROMETERS

Bennett-Feragen 1408 Jerome St Niles Mich Maxson Instruments Corp 47-37 Austel Pl Long Island City L I N Y Tapley Products 53 Park Pl N Y 7 N Y (Importers)

ACETYLENE GAS—See Gas, Acetylene (In Cylinders and Tanks)

ACID, BATTERY-See Electrolyte, Battery Acid

ACIDS, Pickling

Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J. du Pont de Nemours & Co., E. I., Grasselli Chemical Dept., Wilmington 98, Del. Grasselli Harshaw Chemical Co., 1945 E. 97th St., AIR CLEANERS-See Cleaners, Air Cleveland 6, Ulio.
Oakite Products Inc 19 Rector St N Y N Y
Troxide—See Waverly Petroleum Products

Oakite Products Inc. 2 Acceptable Products Co.
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 2, Pa. "Troxide."

ACOUSTIC MATERIAL — See Insulation, Felt, Hair, Paper, etc.; also Pads, Insulation (Heat, Cold & Sound)

ADAPTERS, Choke (Hand)

Aldo—See Superior Screw & Mfg. Co.
American Muffler Co 1280 Tremont St Boston 20 Mass "Redex"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Superior Screw & Mfg Co 1227 W Henderson St Chicago 13 Ill "Aldo"

ADAPTERS, Drive

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich

ADAPTERS, LP-Gas-See Regulators, Adap-tors and Vaporizers, LP-Gas

ADDITIVES, Chrome Plating

Udylite Corp 1651 E Grand Blvd Detroit 11

ADDITIVES, Cutting Fluid

Lilly Co Eli 740 S Alabama St Indianapolis 6 Ind "Elcide"

ADDITIVES, Oil and Lubricant

Enjay Co 15 W 51st St N Y 15 N Y DHESIVES and BONDING RESINS—See Resins, Synthetic (For Bonding, Impregna-ting, Laminating and Protective Coatings) ADHESIVES

ADJUSTERS, Driver's Seat

Ainsworth-Precision Castings Co Div of Harsco Corp 3200 Guardian Bldg Detroit 26 Mich (To order) American Forging & Socket Co P O Box 120 Pontiac Mich Auto-Lite—See Electric Auto-Lite Co Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio "Eberhard Pedaloc" (Truck) Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Ferro Stamping Co 1367 Franklin St Detroit 7 Mich

Mich Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich. (Electric.)

AGITATORS, Paint

Ditzler Color Div Pittsburgh Plate Glass Co 8000 N Chicago Ave Detroit 4 Mich Harbil Mfg Co Wheeling Rd & Exchange Ct Wheeling III

AIR HOSE—See Hose. Air
AIR HOSE—See Hose. Air
Boosters, Air To Hydraulic
Boosters, Air To Hydraulic

AIR COMPRESSORS—See Compressors, Air

AIR CONDITIONING UNITS, Auto Truck, Bus, and Trailer

(See also Coolers, Auto)
A R A Mfg Co 1041 Foch \$t Ft Worth Tex
Airtemp Div Chrysler Corp 1610 Webster St
Dayton 1 Ohio
Artic-Kar—See Capitol Refrigeration & Mfg

Co
Capitol Refrigeration & Mfg Co 2922 Kalloch
Dr Dallas 16 Tex "Artic-Kar"
Eaton Mfg Co Heater Div E 65th St & Central Ave Cleveland Chio
Forston Co 1400 Conti St Houston 2 Tex
"Forston" & "Lincoln"
Frigikar Corp 1711 Cochran St Dallas Tex
"Frigiking" (Front and rear auto; "Frigikar" rear auto; "Frigikab" truck)
Harrison Radiator Div General Motors Corn
Washburn & Walnut Sts Lockport N. Y.
(Auto)

(Auto) Industries Inc 2438 Beekman St Cincin-

(AUIO)

Keco Industries Inc 2438 Beekman St Cincinnati 14 Ohio

Kysor Heater Co Haynes St Cadillac Mich

(Truck cab)

Lincoln—See Forston Co

McGraw-Edison Co Clark Div 5201 W 65th

St Chicago 38 Ill "Tropic-Aire Carrier"

Mark IV—See John E Mitchell Co

Mitchell Co John E 3800 Commerce St Dallas

Tex "Mark IV" (Auto)

Novi Equipment Co Novi Mich (For Ford

and Mercury care)

Onan & Sons Inc D W University Ave S E

at 25th St Minneapolis 14 Minn "Onan

Kab-Kooler" (For truck cabs)

Sutton Corp 0 A 1812 W 2nd St Wichita 1

Kan "Vornado"

Thermo King Corp 44 S 12th St Minneapolis

Kan "Vornato"
Thermo King Corp 44 S 12th St Minneapolis
3 Minn (Bus)
Tropic-Aire-Carrier — See McGraw-Edison Vornado-See O A Sutton Corp

AIR CONDITIONING UNIT PAR Parts, Air Conditioning Unit (Auto) PARTS-See

AIR CONTROL VALVES-See Valves Air

IRCRAFT PARTS — See Blades, Aircraft; Bolts, Aircraft; Cable; Castings, Aircraft; Engines, Aircraft; Heaters, Aircraft; Mo-tors, Electric (Aircraft Use); also Pumps, Fuel (Aircraft) AIRCRAFT

Hancock Mfg Co 225 N Horton St Jackson AIR CYLINDERS-See Cylinders, Air and Hydraulic

AIR IR FILTER REPLACING SWITCHES—See Switches, Air Filter Replacing AIR FILTERS-See Filters, Air (Machinery)

AIRPLANES

Aero Design & Engineering Corp Tulakes Airport Oklahoma City Okla (Mailing ad-dress P O Box 118 Bethany Okla) "Aero ommander

Commander"
Aircoupe—See Forney Industries
Air Craft Marine Engrg Corp 7800 Gloria
Ave Van Nuys Caiif "Anser"
Air-Tractor—See Lamson Aircraft Co
Alouette II—See Republic Aviation Corp
All American Aircraft Inc 1311 W Pacific
Coast Hwy Harbor City Caiif "Ensign"
Anser—See Air Craft Marine Engrg Corp
Baumann Aircraft Corp P O Box 468 North
Hollywood Caiif Hollywood Calif

Baumann Aircraft Corp P O Box 468 North
Hollywood Calif;
Beech Aircraft Corp., E. Central Ave.,
Wichita, Kan. "Beechcraft."
Bell Helicopter Corp P O Box 482 Fort
Worth Tex (Helicopters)
Bellanca—See Northern Aircraft Inc
Boeing Airplane Co Box 3707 Seattle 24 Wash
Brantly Helicopter Corp 24 Maplewood Ave
Philadelphia 44 Pa (Helicopters)
Call Aircraft Co., Afton, Wyo. "Call Air."
(Agricultural)
Cessna Aircraft Co 5800 Pawnee Ave Wichita
Kan (Also helicopters)
Champion Aircraft Corp Osceola Wis (Also
helicopters)

Kan (Also nelicopters)
Champion Aircraft Corp Osceola Wis (Also helicopters)
Chance Vought Aircraft Inc P. O. Box 5907
Dallas Tex
Colonial Aircraft Corp Sanford Me "Skimmer" (Amphibious)
Convair, a Div of General Dynamics Corp. 3165 Pacific Highway San Diego 12 Cal. Convertawings Inc Zahns Airport, Amityville Li N Y. Courier—See Mid-States Mfg Div. Doman Helicopters Inc Municipal Airport P O Box 608 Danbury Conn (Helicopters) Douglas Aircraft Co. 3000 Ocean Park Bivd Santa Monica Cal. Ensign—See All American Aircraft Inc. Fairchild Aircraft Div. Fairchild Engine & Aircraft Corp Hagerstown Md
Fletcher Aviation Corp Fletcher Airport Rosemead Calif.

mead Calif Industries 1820 La Porte Ave Ft Col-Colo "Aircoupe" ear Aircraft Corp 1210 Massillon Rd n 15 Ohio (Also airships and helicop-

Akron 15 C Grumman Aircraft Engineering Corp., Beth- ALLOYS, Bismuth

Grumman Aircraft Engineering Corp., Bethpage, L. I., N. V.
Gyrodyne Co of America Inc Flowerfield St James L I N Y (Helicopters)
Hiller Helicopters 1350 Willow Rd Palo Alto Calif (Helicopters)
Hughes Tool Co Aircraft Div Culver City Calif

Calif
Kaman Aircraft Corp Old Windsor Rd
Bloomfield Conn (Helicopters)
Kellett Aircraft Corp Easton Rd Horsham Pa
Lamson Aircraft Co 807 4th Ave Seattle
Wash "Air-Tractor" (Arricultural)
Lockheed Aircraft Corp., 2555 N. Hollywood
Way, Burbank, Cal.
McDonnell Aircraft Corp., Box 516, LambertSt. Louis Municipal Airport, St. Louis 3,
Mo. (Also helicopters.)
Martin Co Baltimore 3 Md
Meyers Aircraft Co., Box 721, Tecumseh,
Mich.

Meyers Aircraft Co., Box 721, Tecumseh, Mich.
Mid-States Mfg Div Helio Aircraft Corp
Pittsburgh Kans "Courier"
Monocoupe Aircraft & Engine Corp Melbourne Fla
Mooney Aircraft Inc Louis Schreiner Field
Kerrville Tex
North American Aviation Inc International
Airport Los Angeles 45 Calif
Northern Aircraft Inc Municipal Airport
Alexandria Minn "Bellanca"
Northrop Aircraft, Inc., 1001 E. Broadway,
Hawthorne Cal
Piper Aircraft Corp Bald Eagle St Lock
Haven Pa
Rawdon Bros Aircraft Inc P O Box 1119
Wichita 1 Kans
Rapublic Aviation Corp., Conklin St., Farmingdale Li N Y (Also "Alouette II" helicopters)

copters)
Rotor-Craft Corp 1856 Victory Bivd Glendale Calif (Helicopters)
Royal Gull—See Trecker Aircraft Corp
Ryan Aeronautical Co Lindbergh Field 2701
Harbor Dr San Diego 12 Cal
Sikorsky Aircraft Div. of United Aircraft
Corp., Bridgeport 1, Conn. (Helicopters.)
Skimmer-See Colonial Aircraft Corp
Taylorcraft Ine Conway-Pittsburgh Airport
Conway Pa
Temeo Aircraft Corp P O Box 8191 Dallas
2 Tex

Temco Freeker Aircraft Corp 6781 W National Ave Milwaukee 14 Wis "Royal Gull" (Amphib-

Vertol Aircraft Corp Morton Pa (Helicopters)

AIR PRESSURE GAGES-See Gages, Steam AIR PRESSURE REGULATORS-See Regulators, Air Pressure

AIR SPRINGS-See Springs, Air (Auto, Truck & Bus)

AIR SUSPENSIONS—See Suspensions, Air (Truck, Trailer and Bus)

ALARMS, Speed (Safety)-See Signals, Excess

ALLOYS, Aluminum

Alcoa—See Aluminum Co. of America.
Aluminum Co of America 1501 Alcoa Bidg
Pittsburgh 19 Pa "Alcoa" "Lo-Ex"
Belmont Smeiting & Renning Works, 326a
Belmont Ave., Brooklyn. N. Y.
Falls—See Niagara Falls Smeiting & Refining Div Continental Copper & Steel In-

Fails—See Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5
N Y "Tenzaloy" "Federated" (Ingot)
Frontier Bronze Corp 4510 Pacsard Rd
Niagara Falls N Y
Hamden Steel & Aluminum Co State & Edmund Sts New Haven Conn
Kalser Aluminum & Chemical Corp 1924
Broadway Oakland 12 Calif
Lo-Ex—See Aluminum Co of America.
Nasco—See North American Smelting Co
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204
Elimwood Ave Buffalo 23 N Y "Falls" (Also
titanium aluminum)
North American Smelting Co., Tioga &
Edgemont Sts., Philadelphia 34, Pa.
"Nasco."
Revere Copper and Brass, Inc. 228 Park Ave.

Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y.

New York 17, N. Y.
Reynolds Metals Co 3rd & Grace Sts Richmond 19 Va
Tenzaloy—See Federated Metals Div Ameri-

mond 19 va
Tenzaloy—See Federated Metals Div American Smelting & Refining Co
U S Reduction Co Melville & Chicago Aves
East Chicago Ind "Usco"
Usco—See U S Reduction Co
Vanadium Corp. of America, 420 Lexington
Ave., New York 17, N. Y. "Vancoram"
(Vanadium - aluminum, Titanium - aluminum)

num)
Vancoram—See Vanadium Corp. of America.

Belmont Smelting & Refining Works, 326a
Belmont Ave., Brookivo. N. Y.
Cerro DePasco Corp 300 Park Ave N. Y. 22
N. Y. "Cerrobase" "Cerrobend" "Cerrocast" "Cerrosafe" "Cerromatrix" "Cerrotru" "Cerrolow" "Cerroseal"
Divco—See Division Lead Co.
Division Lead Co. 7742 W 61st Pl Summit Ill
"Divco"

Divco Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y

ALLOYS. Chromium

Allegheny Ludium Steel Corp 2020 Oliver Bidg Pittsburgh 22 Pa Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa Exlo—See Vanadium Corp of America Falls—See Niagara Falls Smelting & Re-fining Div Continental Copper & Steel In-

fining Div Continental Copper & Steel Industries Inc
& T—See Metal & Thermit Corp.
[etal & Thermit Corp Rahway N J "M & T"
ichigan-Standard Alloy Casting Co 1999
Guoin St Detroit 7 Mich "Misco"
isco—See Michigan-Standard Alloy Cast-

Misco—See Michigan-Standard Alloy Cast-ing Co Niagara Falia Smeiting & Refining Div Con-tinental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 22 N Y "Falis" Vanadium Corp of America 420 Lexington Ave New York 17 N Y "Vancoram" "Exlo" (Ferro-chromium)

(Ferro-chromium)
Vancoram—See Vanadium Corp. of America

ALLOYS, Copper

Ambralov—Rea American Brass Co American Brass Co 414 Meadow St Water-bury 20 Conn "Ambralov" "Everdur" Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn N Y Beryllom Corp P O Box 1462 Reading Pa "Berylco" Berylco—See Beryllium Corp Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

Bridgeport Brass Co 30 Grand St Bridgeport
2 Conn.
Division Lead Co 7742 W fist Pi Summit III
Elikonite-See P. R. Mallory & Co.
Everdur—See American Brass Co.
Everdur—See American Brass Co.
Falls—See Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc
Federated Metals Div American Smelting & Refining Div Singara Falls Smelting & Refining Co 120 Broadway New York 5

V V

Mallory & Co P R 3029 E Washington St Indianapolis 6 Ind "Elkonite" "Mallory 3" & "Soldalog"

Niagara Falls Smelting & Refining Div., Continental Copper & Steel Industries Inc 2204
Elmwood Ave Buffalo 23 N Y "Falls"
(Also titanium copper)
Revere Copper and Brass, inc., 230 Park Ave.,
New York 17, N. Y.
S-M-S Corp 8605 Livernois Ave Detroit 4
Mich
Soldalov—See P. B. Mallow, 5, 6

Soldaloy-See P R Mallory & Co

ALLOYS, Cutting (Cobalt, Chromium, Tantalum and Tungsten Carbide)

(See also Diamonds, Industrial)

(See also Diamonds, Industrial)
Allegheny Ludium Steel Corp 2020 Oliver
Bidg Pittsburgh 22 Pa
General Electric Co Metallurgical Products
Dept 11777 E Eight Mile Rd Detroit 32
Mich (Tungsten, tantalum or titanium)
Haynes Stellite Co 725 S Lindsay St Kokomo Ind (Cobalt chromium-tungsten)
Vikide—See Viking Tool Co
Viking Tool Co 1000 Nichols Rd Shelton
Conn "Vikide" (Cobalt chromium, tantalum and tungsten carbide)
Willey's Carbide Tool Co, 1340 W. Vernor
Highway, Detroit 1, Mich. (Titanium, Tantalum and Tungsten carbide.)

ALLOYS, Hard Facing

Wall Colmonoy Corp 19345 John R St De-troit 3 Mich "Colmonoy"

ALLOYS, Manganese

Chace Co., W. M., 1600 Beard Ave., Detroit 9, Mich. Vanadium Corp of America 420 Lexington Ave N Y 17 N Y (Silico manganese)

ALLOYS, Magnesium

Belmont Smelting & Refining Works, 326s
Belmont Ave., Brooklyn, N. Y.
Dow Chemical Co Midland Mich "Dowmetal"
(Bars, rods, shapes, sheet and plate)
Dowmetal—See Dow Chemical Co.
Falls—See Niagara Falls Smelting & Refining Div

ing Div
Federated Metals Div American Smelting &
Refining Co 120 Broadway N Y 5 N Y
Niagara Falis Smeiting & Refining Div Continental Copper & Steel Industries Inc 2204
Elmwood Ave Buffalo 23 N Y "Falis"
Vanadium Corp of America 420 Lexington
Ave N Y 17 N Y "Vancoram"
Vancoram—See Vanadium Corp of America

ALLOYS, Molybdenum

Climax Molybdenum Co., 500 Fifth Ave., New York 36, N. Y.

ALLOYS, Nickel

International Nickel Co 67 Wall St N T 5 N Y "Inco" "Inconel" 'Monel' 'Nimonic" "Ni-Resist" (Steel)

ALLOYS, Nickel-Chromium

Allegheny Ludium Steel Corp 2020 Oliver
Bidg Pittsburgh 22 Pa
Alloy Metai Wire Co., 13th & Pennsylvania
Aves., Moores, Prospect Park, Pa. "Airay."
(Wire, rod and strip.)
Airay—See Alloy Metai Wire Co.
Chromel—See Hoakins Mfg. Co.
Colmonoy—See Wall Colmonoy Co.
Driver-Harris Co Middlesex St Harrison N J
"Nichrome"

Driver-Harris Co Middlesex St Harrison N J
"Nichrome"
General Alloys Co 387 W First St Boston 27
Maas "Q-Alloys"
Hoskins Mg. Co., 4435 Lawton Ave., Detroit
8, Mich. "Chromel."
Inco-See International Nickel Co
Inconel—See International Nickel Co
International Nickel Co, 67 Wail St., New
York S N Y "Inconel" "NI-O-Nel" "NIResist"
Michigan-Standard Alloy Casting Co 1999

Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco" Misco—See Michigan-Standard Alloy Casting

Co
Nichrome—See Driver-Harris Co.
Ni-O-Nel—See International Nickel Co
Ni-Resist-See International Nickel Co
Q-Alloys—See General Alloys Co.
Wall Colmonoy Corp., 19345 John R St., Detroit 3, Mich. "Colmonoy."

Beimont Smeiting & Refining Works, 326a Beimont Ave., Brooklyn, N. Y. Bridgeport Brass Co 36 Grand St Bridgeport 2 Conn -See Niagara Falls Smelting & Re-

Falls—See Niagara Falls Smelting & Re-fining Div Niagara Falls Smelting & Refining Div Con-tinental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls" Revere Copper and Brass, Inc., 220 Park Ave., New York 17, N. Y.

ALLOYS, Vanadium

Vanadium Corp. of America, 420 Lexington Ave., New York 17, N. Y. "Vancoram." (Ferro-vanadium.)

ALLOYS, Zinc Die Casting

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5

Horse Head Zamak-See New Jersey Zinc

New Jersey Zinc Co 160 Front St New York 38 N Y "Horse Head Zamak" U S Reduction Co Melville & Chicago Aves East Chicago Ind (Ingots)

ALTERNATORS

Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y Lecce-Neville Co 1374 E 51st St Cleveland 3

ALUMINUM BRONZE-See Bronze, Aluminum ALUMINUM CASTINGS-See Castings, Die

ALUMINUM EXTRUSIONS - See Extrusions.

ALUMINUM PAINTS-See Paints, Aluminum

ALUMINUM (Sheet, Rod and Ingot)

ALUMINUM (Sheet, Rod and Ingot)
Alcoa—See Aluminum Co. of America.
Aluminum Co of America. 1501 Alcoa Bldg
Pittsburgh 15 Pa "Alcoa"
American Nickeloid Co., Peru, Ill. (Nickel
and chrome plated aluminum, in sheets.)
Belmont Smelting & Refining Works, 326a
Belmont Ave., Brooklyn, N. Y. (Ingot.)
Colonial Alloys Co Ridge Ave & Crawford
St Philadelphia 25 Pa (Sheet, rod, strip
and wire)
Empire Metal Co 820 E Water St Syracues
3 N Y
Fairmont Aluminum Co., Fairmont, W. Va

Simple Metal Co 220 E water St Syracuse 3 N Y
Fairmont Aluminum Co., Fairmont, W. Va
"Falco." (Sheet, coil and circles.)
Falco.—See Fairmont Aluminum Co.
Falis.—See Niagara Falls Smelting & Refining Div
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5
N Y (Ingot)
Firestone Steel Products Co 1600 Firestone
Parkway Akron 1 Ohio
Hamden Steel & Aluminum Co State & Edmund Sts New Haven Conn "USA" (Ingot)
Harvey Aluminum 19200 S Western Ave Tor-

Hunter

got)
Arvey Aluminum 19200 S Western Ave Torrance Calif (Rod and bar)
Iunter Douglas Aluminum Corp 3016 Kansas
Ave Riverside Calif (Strip)
(alser Aluminum & Chemical Corp 1924
Broadway Oakland 12 Calif (Sheet plate
coils circles billets pig ingot rod bar and
wire)

coils circles billets pig ingot rod bar and wire)
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
North American Smelting Co., Marine Terminal, Wilmington, Del. (Ingot and shot.)
Olin Mathieson Chemical Corp Aluminum Div 400 Park Ave N Y 22 N Y
Pioneer Aluminum Inc 5251 W Imperial Hwy Los Angeles 45 Calif (Cast tooling plate)
Precision Extrusions 720 E Green Ave Bensenville Ill (Extruded shapes, rod, bar and tubing)

tubing)
Revere Copper & Brass Inc 230 Park Ave
N Y 17 N Y

N Y 17 N Y
Reynolds Metals Co P O Box 2346 Richmond
18 Va (Sheet plate wire rod bar ingot
and pig)
Scovill Mfg Co 99 Mill St Waterbury 20 Conn
USA—See Hamden Steel & Aluminum Co

ALUMINUM TUBING-See Tubing, Aluminum

AMMETERS, Instrument Board

AMMETERS, Instrument Board

AC The Electronics Div of General Motors
1300 N Dort Highway Flint 2 Mich
Hoyt Electrical Instrument Works Inc 42
Carleton St Cambridge 42 Mass (Sole distributors Burton-Regers Co 42 Carleton St
Cambridge 42 Mass)
K-S Telegage—See King-Seeley Corp.
King-Seeley Corp., 315 S. First St., Ann
Arbor, Mich. "K-S Telegage."
Simpson Electric Co Div of American Gage
4 Machine Co 6208 W Kinzle St Chicage
44 Ill
Stewart-Warner Corp Instrument Div 1826

44 II Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago III Sun Electric Corp., 6223 Avondale Ave., Chi-cago 31, III. United States Gauge Div. of American Ma-chine and Metals, Inc., Clymer Ave., Sel-lersville, Pa.

Weston Instruments Div of Daystrom Inc ANNEALING—See Treating, Heat 614 Frelinghuysen Ave Newark 12 N J

AMMETERS and VOLTMETERS (Including Switchboard)

Auto-Lite—See Electric Auto-Lite Co Bristol Co Waterbury 20 Conn Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Electric Auto-Lite Co Toledo 1 Ohio "Auto-lite"

Esterline-Angus Co., P. O. Box 596, Indiananolis 6, Ind.

G-E-See General Electric Co
General Electric Co Apparatus Sales Div J
River Rd Schenectady 5 N Y "G-E"
Hoyt Electrical Instrument Works Inc 42
Carleton St Cambridge 42 Mass (Sole distributors Burton-Rogers Co 42 Carleton
St Cambridge 42 Mass)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Mercury Electric Corp 719 Wyandotte St
Kansas City 6 Mo
Norton Electrical Instrument Co., 81 Hilliard
St., Manchester, Conn.
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Simpson Electric Co Div of American Gage

Simpson Electric Co Div of American Gage & Machine Co 5208 W Kinzie St Chicago 44 III

Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa Teston Instruments Div of Daystrom Inc 614 Frelinghuysen Ave Newark 12 N J

ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N.
Pitcher St. Kalamazoo 13F, Mich
Bacharach Industrial Instrument Co 200 N
Braddock Ave Pittsburgh 8 Pa
Cambridge Instrument Co 3732 Grand Central Terminal Bidg N Y 17 N Y ommercial Research Div George L Nan-kervis Co 15300 Fullerton St Detroit 21 Mich

Electro Products Co., 445 E. 189th St., New York 58 N. V. "Mixture Master" Vork 52 N V "Mixture Master"
General Electric Co Apparatus Sales Div 1
River St Schenectady 5 N Y
Gow-Mac Instrument Co 100 Kings Rd Madison N J
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Heyer Industries Inc 471 Cortlandt St Belle-

ville 9 N J

King Electric Equipment Co 9123 Inman
Ave Cleveland 5 Ohio
Mixture Master—See Electro Products Co.
Permutit Co 50 W 44th St N Y 36 N Y
Ranarex"

Ranarex—See Permutit Co. Schauer Mfg. Corp 4500 Alpine Ave Ross-moyne Ohio

Snap-On Tools Corp 8046 28th Ave Kenosha Wis Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, III

cago 31. III Weldenhoff Corp Algona Iowa

ANALYZERS, Engine and Electrical Equipment

(See also Stands, Electric Test) llen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F. Mich. ee-Line Co P O Box 569 Davenport Iowa (Electrical)

(Electrical)

Bendix Products Div Rendix Aviation Corp
South Bend 20 Ind "Hydrovac"

Du Mont Laboratories Inc Allen B 750
Bloomfield Ave Clifton N I
Electro Products Co 445 E 189th St N Y 53
N Y

N Y
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Heyer Industries Inc 471 Corriandt St Belleville 9 N J "Heyer Dyna-Vision"
Hydrovac—See Bendix Products Div Bendix
Aviation Corp
King Electric Equipment Co 9123 Inman Ave
Cleveland 5 Ohlo
Mack Products Co., 15 Putnam St., Winthron Mass.

Mack Products Co., 15 Putnam St., Win-throp, Mass. Motoraide Corp 2400 Emerald St Philadelpnia

25 Pa Nankervis Co George L 15300 Fullerton St Detroit 27 Mich (Shock absorbers, trans-missions, differentials, etc) Schauer Mfg Co 4500 Alpine Ave Rossmoyne

Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Snap-On Anal-O-Scope" (Ignition

Wis "Snap-On Anai-O-Scope system)
Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Weldenhoff Corp Algona Iowa
Westach Auto Ald—See Westberg Mfg Co Westberg Mfg Co 144 S Coombs St Napa Calif "Westach Auto Ald" (Engine)

ANNEALING BOXES AND POTS—see Box and Pots, Annealing and Case-Hardening

ANODES, Electroplating

Allied Research Products Inc 4004 E Monu-ment St Baltimore 5 Md (Zinc and copper) American Brass Co 414 Meadow St Water-bury 20 Conn "Anaconda" (Copper brass

bury 20 Conn "Anaconda" (Copper brass and bronze)
Anaconda—See American Brass Co.
Belmont Smelting & Refining Works, 326a
Belmont Ave., Brooklyn, N. Y. (Cadmium, copper, lead, nickel and zinc.)
Divco—See Division Lead Co.
Division Lead Co.
Division Lead Co.
Tivision Lead Co.
Tivisi

mium)
Durobrite—See E. I. du Pont de Nemours &
Co., Electrochemicals Dept.,
Electric Materials Co Clay &
Washington
Sts North East Pa (Copper)
Empire Metal Co 820 E Water St Syracuse 3 mium)

Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y (Copper lead tin zinc brass & cad-mium)

mium)

Handy & Harman, 82 Fulton St., New York
38, N. Y. (Silver.)

Hanson-Van Winkle-Munning Co Matawan
N. J. "H-V-W-M" (Brass copper nickel
zinc cadmium etc)

Harshaw Chemical Co., 1945 E. 97th St.,
Cleveland 6, Ohio,
M. & T.—See Metal & Thermit Corp.

Meaker Co., 1629 S. 55th Ave., Chicago 50,
Ill. (Zinc.)

Metal & Thermit Corp Rahway N. J. "M. & T."

Metal & Thermit Corp Rahway N J "M & T"

Revere Copper & Brass Inc., 230 Park Ave., New York 17. N. V. Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

ANTENNAS-See Radio Accessories, Auto

ANTI-FREEZE, Cooling System

Ajax-See Commercial Solvents Corp. Arctic Flo-See Petroleum Chemicals Co

Atlas Permaguard-See Esso Standard Oil

Ball Chemical Co 524 Federal St Pittsburgh 12 Pa "Cleanola" Blue Star-See Petroleum Chemicals Co

Cleanola-See Ball Chemical Co. Cliffs Dow Chemical Co., Wright St., Mar-quette, Mich.

ommercial Solvents Corp 260 Madison New York 16 N Y "Ajax" "Frost Cl "Nor'way" "Peak"

Compass-See Porte Mfg. Co.

Dacar Chemical Products Co Wabash & Mc Cartney Sts Pittsburgh 20 Pa "Permento" du Pont de Nemours & Co E I Polychemical Dept Zerone & Zerex Anti-Freeze Sales Section Wilmington 28 Del "Zerone" Dept Ze Section "Zerex"

Esso Standard Oi Co 15 W 51st St New York 19 N Y "Esso" "Atlas Permaguard"

York 19 N "Esso" "Atlas Permaguard" Fleetline—See Randall Products Mfg Co Freez-See Speco, Inc. Freez-Rem—See Speco Inc Frost Chek—See Commercial Solvents Corp. Gold Seal—See Master Co Gulf Oil Corp 1822 Gulf Bldg Pittsburgh 30

Pa
Jefferson Chemical Co 1121 Walker St Houston 2 Tex
Master Co 37 Preston Ct Brooklyn 34 N Y
"Gold Seal"
National Carbon Co 30 E 42nd St New
York 17 N Y "Prestone" "Trek"
Nor way—See Commercial Solvents Corp
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Octavone"

land 1 N Y "Octarone"

Olin Mathleson Chemical Corp Industrial Chemical Div Mathleson Bldg Baltimore

3 Md "Pyro" "Super-Pyro"

Peak—See Commercial Solvents Corp.

Permento—See Dacar Chemical Products Co
Petroleum Chemicals Co Titton Rd Danville

Ill "Arctic Fio" "Blue Star" "Protecto"

N Y "Compass"

N Y "Compass"

Prestona—See Notational Corp.

Porte Mfg Co 3179 Atlantic Ave Brooklyn 8 N Y "Compass"
Prestone—See National Carbon Co
Protecto—See Petroleum Chemicals Co
Pyro—See Olin Mathieson Chemical Corp
Randall Products Mfg Co 2995 Broadway New
York 23 N Y "Rand-Zone" & "Fleetline"
Shell Oil Co., 56 W. 50th St., New York 20.
N. Y.

Speco Inc 7308 Associate Ave Cleveland 9 Ohio "Speco" "Freezex" "Freez-Rem" "Winterset"

ANTI-FREEZE, Cooling System

Super-Pyro-See Olin Mathieson Chemical Super-Pyro—See Unit Corp
Corp
Trek—See National Carbon Co.
Union Carbide Chemicals Co 30 E 42nd St
N Y 17 N Y
Winterset—See Speco Inc
Zerex—See E I du Pont de Nemours & Co
Zerone—See E I du Pont de Nemours & Co

ANTI-FREEZE, Gasoline Line

Bardahl Mfg Corp 1400 W 52nd St Seattle 7 Wash

Bardahl Mfg Corp 1400 W 52nd St Seature , Wash
Barton Products Co 1891 N Winnebago Ave Chicago 47 Ill
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind
Chevron—See Standard Oll Co of Calif
Commercial Solvents Corp 260 Madison Ave New York 18 N Y "Nor way Dry-Ex"
Cristy Chemical Corp 37 Harvard St Worcester 2 Mass "Cristy Drygas"
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."

tuner."
du Font de Nemours & Co E I Finishes Div Chemical Specialties Sales Wilmington 98 Del "Gas Guard" Gasec-See Porte Mfg. Co. Gas Guard—See E I du Pont de Nemours &

Gas Guard—See E I du Pont de Nemours & Co
Clisten Co., 13 Barnard St., Hillsdale, Mich
Gold Eagle Products Co 1050 W Kenzle St
Chicago 22 III
Heet Div of DeMert & Dougherty Inc 3001
W 47th St Chicago 32 III
Hollingshead Corp., R. M., 840 Cooper St.,
Camden, N. J. "Whiz Zorbit."
ICU Livegas—See Livingston Co
Livingston Co 150 Amity Rd New Haven 15
Conn "ICU Livegas"
Lubri-Loy Co 6319 Wilson St St Louis 10
Mo "Plus"
Motor Kool Products Co 505 Buttles Ave
Columbus 3 Ohlo "M-K Startrite"
Mototuner—See Dacar Chemical Products Co.
National Carbon Co 30 E 42nd St N Y 17
N Y "Frime" See Compagned Solvents National Carb Nor'way Dry-Ex-See Commercial Solvents

Corp.
Petroleum Solvents Corp 331 Madison Ave

Petroleum Solvents Corp 331 Madison Ave N Y 17 N Y "Siloo" Porte Mfg Co 3178 Atlantic Ave Brooklyn S N Y "Gasee" & "Presto" Presto-See Porte Mfg Co Prime—See National Carbon Co Rust Master Chemical Corp 58 Creighton St Cambridge Mass Slioo—Petroleum Solvents Corp Standard Oil Co of Calif Western Operations Inc 225 Bush St San Francisco 20 Calif "Chevron"

"Chevron"
Tumbler Laboratories, J. A., 423 S. Hanover
St., Baltimore 1, Md.
Whiz Zorbit—See R. M. Hollingshead Corp.
Wilco Co 4425 Bandini Blvd Los Angeles 23 Calif Zecol Inc 3270 8 3rd St Milwaukee 7 Wis

ANTI-SQUEAK, BODY-See Lining, Body or

ARBORS, EXPANDING-See Mandrels, Ex panding

ARM RESTS-See Rests, Arm

ARMATURES

American Generator & Armature Co 6100 W Grand Ave Chicago 25 III BV-See General Armature & Mfg Co General Armature & Mfg Co General Armature & Mfg Co Box 370 Lock Haven Pa "EV"

ARMATURE BAKING OVENS — See Ovens, Molded Products

ARMATURE BANDING WIRE - See Wire, ARMATURE BANDING

ARMATURE GROWLERS — See Instruments, Electrical Circuit Testing

ARMS, Breaker

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Shurhit Products Inc 845 S Market St Waukegan III
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y Valley Forge Products Inc 370 19th St Brookiyn 15 N Y

ASSEMBLIES, Front Drive-See Axles, Front

ASSEMBLY MACHINES, AUTOMATIC—See Machine, Automatic Assembly

AUTOMATIC TRANSFER MACHINES Machines, Automatic Transfer (Produc

AUTOMOBILES (BUSES)-See Buses AUTOMOBILES (FIRE APPARATUS)-See Trucks, Fire

AUTOMOBILES (Passenger Cars)

American Motors Corp Automotive Div 14250 Plymouth Rd Detroit 32 Mich "Rambler" uick Motor Div. General Motors Corp. Hamilton & Industrial Aves., Flint 2, Mich Hamilton & Industrial Aves., Flint 2, Mich. Cadillac Motor Car Div. General Motors Corp., 2860 Clark Ave., Detroit 32, Mich. Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich (Also taxicabs) Chevrolet Motor Div. of General Motors Corp., General Motors Bidg., Detroit 2, Mich. Chrysler Div Chrysler Corp 12200 E Jefferson Ave Detroit 31 Mich "Chrysler" & "Imperial"

'Imperial' Continental-See M-E-L Div of Ford Motor

Co
De Soto Div., Chrysler Corp., 6000 Wyoming
Ave., Detroit 31, Mich. (Also taxicabs.)
Dodge Div., Chrysler Corp., 7900 Joseph
Campau Ave. Detroit 31, Mich.
Edsel—See M.-E-L Div of Ford Motor Co
Ford Div Ford Motor Co Rotunda Dr &
Southfield Ave Dearborn Mich
Imperial—See Chrysler Div Chrysler Corp
Lincoin—See M.-E-L Div of Ford Motor Co
M.-E-L Div of Ford Motor Co 300 Schaefer
Rd Dearborn Mich "Continental" "Edsel"
"Lincoin" "Mercury"
Mercury—See M.-E-L Div of Ford Motor Co

"Lincoln" "Mercury"

Mercury—See M-E-I, Div of Ford Motor Co
Oldsmobile Div. General Motors Corp.,
Townsend St., Lansing 21, Mich,
Plymouth Div Chrysler Corp 6334 Lynch Rd
Detroit 31 Mich (Also taxicabs)
Pontiac Motor Div. General Motors Corp.,
Pontiac, Mich. (Also taxicabs.),
Rambler—See American Motors Corp.
Studebaker-Packard Corp 635 S Main St
South Bend 27 Ind "Studebaker", "Studebaker Econ-O-Miler" (Taxicabs)

AUTOMOBILES (MOTOR TRUCKS) -

AUTOMOBILES (TRACTORS)-See Tractors AXLE SHAFTS-See Shafts, Rear Axle

AXLE SUSPENSION UNITS. Trailers

Acme Trailer Mfg Co 2591 N Marks Ave Fresno Calif Fresno Calif
Bartlett Trailer Corp 3080 Archer Ave Chicago 8 Ill

Copco Trailers Div of Copco Steel & Engre Co 23500 Sherwood Rd Detroit 14 Mich Feather title—See Pointer-Willamette Co Fruehauf Trailer Co 10940 Harper Ave De-troit 32 Mich Gravity Springs—See Truck Equipment Conferent Dane Trailers Inc PO Box 1159 Sa

Great Dane Trailers Inc PO Box 1159 Savannah Ga vannah Ga Grico Two Axie Co 19840 Eight Mile Rd (Redford Sta) Detroit 19 Mich Hammer Blow Tool Co., 602½ Third St., Wausau. Wis. Hendrickson Mfg Co 8001 W 47th St Lyons

Highway Trailer Co 405 E Fulton St Edger-ton Wis

ton Wis
Hobbs Trailers Div of Fruehauf Trailer Co
609 N Main St Fort Worth 1 Tex
Hoobler—See Youngstown Steel Car Corp
Hutchens & Son Metal Products Inc 2332 E
Division St Springfield Mo
Hydro-Trac—See Truckstell Mfg Co
Kingham Trailer Co 15th & Hill Sts Louisville 10 Ky
Newax Equipment Co 1183 E Laketon St

Neway Equipment Co 1183 E Laketon St

Muskegon Mich P-W-See Pointer-Willamette Co. Page & Page 0605 S W Curry St Portland 1 Ore

Pointer-Willamette Co P O Box 368 Edmonds Wash "Feather Ride" "P-W" "West Pointer"

Pointer"
Reyco—See Reynolds Mfg Co
Reynolds Mfg Co 600 N Prospect Ave
Springfield 2 Mo "Reyco"
Shamrock Trailers & Axle Mfg. Co., 13447
Schnefer St., Detroit, Mich.
Shuler Axle Co. 2901 S 2nd St Louisville 8 Ky
Spencer-Safford Loadcraft Inc Augusta Kans
Standard Forge & Axle Co., Hunter Sta.
Montgomery 2, Ala. (Licensee.)
Tandemtrac—See Truck Equipment Co
Trailmobile Inc 31st & Robertson Ave Cin-

Tandemtrac—See Truck Equipment Co Trailmobile Inc 31st & Robertson Ave Cin-cinnati 9 Ohio Truck Equipment Co., 1791 Fillmore Ave Buffalo 14, N. Y. "Gravity Springs" & "Tandemtrac"

Truckstell Mfg Co 1437 Union Commerce Bldg Cleveland 14 Ohio "Hvdro-Trac" Trucktor Corp P O Box 120 Westfield N J

West Pointer—See Pointer-Willamette Co. Youngstown Steel Car Corp Hunter St Niles Ohio "Hoobler" (Self-steering undercarriage)

AXLE UNITS, Third, for Trucks

ALE UNITS, Inird, for Trucks
Acme Trailer Mfg Co 2591 N Marks Ave
Fresno Calif
Auto Transport Mfg Co 3698 S Chestnut St
Fresno Calif "Bonnin"
Baumis—See Truckstell Mfg Co
Bonnin—See Auto Transport Mfg Co
Chief-Ton—See Truckstell Mfg Co
Clark Equipment Co Buchanan Mich
Detroit Automotive Products Corp 8701
Grinnell Ave Detroit 13 Mich "Thernton
Four-Rear Wheel Drive" (Four wheel
drive; also "Load Booster")
F A B Mfg Co 1249 67th St Oakland 8 Calif
"Fabo"

"Fabou-See F A B Mfg Co Fabou-See F Truckstell Mfg Co Foster Trailer Co 2026 Bay St Los Angeles 21 Calif "Jo-Dogs" (Detachable) Fox Body Co 1109 Galena St Janesville Wis Fruehauf Trailer Co 10940 Harper Ave De-troit 32 Mich "Tonnage Master" Henurickson Mfg Co 8001 W 47th St Lyons

Helaricsson Mig Co 3001 W Acht St Lyons
Hill Hobbs Trailers Div of Fruehauf Trailer Co
609 N Main St Fort Worth 1 Tex
Hutchens & Son Metal Products Inc 2332 E
Division St Springfield Mo
Jo-Dogs-See Foster Trailer Co
Little Glant Products, Inc., 1539 N. Adams
St., Peorla 3, Ill.
Load Booster-See Detroit Automotive Products Corp.
Neway Equipment Co 1183 E Laketon St
Muskegon Mich
Page & Page Co 0605 S W Curry St Portland
1 Ore
Reyco-See Reynolds Mfg Co

1 Ore Reyco—See Reynolds Mfg Co Reynolds Mfg Co 600 N Prospect Ave Spring-field 2 Mo "Reyco". Road Runner Corp 11835 Ave O Chicago 17 Ill (Detachable; sole distributors, Frue-hauf Trailer Co 10940 Harper Ave Detroit

32 Mich)

Rockwell-Standard Corp Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Timken-Detroit" Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)

Tandemtrac—See Truck Equipment Co Thornton Four-Rear Wheel Drive—See Detroit Automotive Products Corp.

Timken - Detroit—See Rockwell - Standard Corp.

Corp Tonnage Master—See Fruehauf Trailer Co Trailmoblie Inc 31st & Robertson Aves Cin-cinnati 9 Ohio Truck Engineering Corp 1285 W 70th St

Cleveland 2 Ohio

Cleveland 2 Ohio
Truck Equipment Co 1791 Fillmore Ave Buffalo 14 N Y "Tandemtrac"
Truckstell Mfg Co 1437 Union Commerce Bidg
Cleveland 14 Ohio "Baumis" "Chief-Ton"
"Forty-H!" "Truckstell" "Truckstell Hydro-Trac" "Truckstell" Willock"
Trucktor Corp P O Box 120 Westfield N J
(Also chain and sprocket drive)
Weber Trailer & Mfg Co 3400 E Slauson Ave
Rivera Calif (Mailing address P O Box 2473
Los Angeles 54 Calif)

AXLES, Front

(Finished or machined axies; for axie forgings—See Forgings)

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)

Eaton Mfg. Co., Axie Div., 739 E. 140th St., Cleveland 10, Ohio. (Truck.)

Hahn Motors Inc 400 S Third St Hamburg Pa "Spangler" (Dual, for trucks)

Page & Page Co 0605 S W Curry St Portland 1 Ore

Rockwell-Standard Corp Transmission & Axie Div. 100 Clark Ave Detroit 32 Mich "Timken-Detroit" (Truck and bus)

Shuler Axie Co 2001 S Second St Louisville 8 Ky

8 Ky Spangler—See Hahn Motors Inc Timken - Detroit — See Rockwell - Standard

AXLES, Front Drive

American Coleman Co Littleton Colo (For conversions of Ford, Chevrolet, Interna-tional, GMC, Dodge, Mack, White, Reo and

Autocar trucks)
F A B Mfg Co 1249 67th St Oakland 8 Calif
"Fabco-Holmes"
Fabco-Holmes—See F A B Mfg Co
Marmon-Herrington Co 1511 W Washington
St Indianapolis 7 Ind (For Ford conver-

sions)
Rockwell-Standard Corp Transmission &
Axie Div 100 Clark Ave Detroit 32 Mich
"Timken-Detroit" (For trucks)

Timken - Detroit - See Rockwell - Standard

AXLES, Power Converter (For Refrig-erated Trucks and Trailers) Grico Two Axle Drive Co 19840 Eight Mile Rd W Detroit 19 Mich

AXLES, Rear

(Complete rear axle units; for axle parts—See specific article)

lark Equipment Co., Buchanan, Mich. (Truck and bus.)
ook Bros Equipment Co 334 San Fernando Rd Los Angeles 65 Calif
ana Corp 4100 Bennett Rd Toledo 1 Ohio
"Spicer" 00

Dana Corp 4100 Bennett Rd Toledo 1 Ohlo "Spicer"
Eatou Mfg. Co., Axle Div., 739 E. 140th St. Cleveland 10, Ohlo. (Tandem for trucks.)
Grico Two Axle Drive Co 19840 Eight Mile Rd W Redford Station Detroit 19 Mich (Tandem for trucks)
Hendrickson Mfg. Co 8001 W 47th St Lyons III (Wheel reduction)
Napco Industries Inc Napco Axle Div 534 N Seventh St Mineapolls 11 Minn Rockwell-Standard Corp Transrission & Axle Div 100 Clark Ave Detroit 32 Mich "Timken-Detroit" (For trucks)
Snicer—See Dana Corp
Timken - Detroit — See Rockwell - Standard Corp

AXLES, Rear (Two Speed)

Eaton Mfg. Co., Axle Div., 739 E. 140th St. Cleveland 19. Ohio.
Rockwell-Standard Corp Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Timken-Detroit" (For trucks)
Timken - Detroit — See Rockwell - Standard Corp

AXLES, Trailer

(Finished or machined trailer axles, for trailer axle forgings—See Forgings)

ings)

Brown Corp., 213 Believue Avc., Syracuse, N. Y. (House.).
Caravan—See United Mfg. Co.
Clark Equipment Co Buchanan Mich
Fayette Mfg Co Box 8 Fayette Ohio
Frazier—See Springfield Body & Trailer Co
French & Heent Div Kelsey-Hayes Co 3rd
& Farnam Sts Davenport lowa
Grico Two Axle Drive Co 19840 Eight Mile
Rd W (Redford Sta) Detroit 19 Mich
Hammer Blow Tool Co., 602½ Third St.,
Wausau, Wis. "Torq-less."
K-B—See Kay-Brunner Steel Products Inc

Rd W (Redford Sta) Detroit 19 Mich Hammer Blow Tool Co., 802½ Third St., Wausau, Wis. "Torq-less." K-B-See Kay-Brunner Steel Products Inc Kay-Brunner Steel Products Inc 999 Meri-dian Ave Alhambra Calif "K-B" (Truck) Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky., Liggett Spring & Axle Co., Monongabela, Pa

Pa Liggett Supply & Equipment Co 2030 S Main St Elkhart Ind Loadcraft — See Spencer-Safford Loadcraft

Inc
Napco Industries Inc Napco Axle Div S34 N
Seventh St Minneapolis 11 Minn
Prior Products Inc 4528 Racell St Dallas Tex
"Prior-Linco"
Rockwell-Standard Corp Transmission &
Axle Div 100 Clark Ave Detroit 32 Mich
"Timken-Detroit"
Shamrock Trailers & Axle Mfg Co 13447
Schaefer St Detroit Mich
Shuler Axle Co 2901 S Second St Louisville
8 Ky
Slimp Axle Products Highway 99 West (P O

Sky Sky Sketch Sketch Sketch Sky Sky Skimp Axle Products Highway 99 West (P O Box 449) Colton Calif (Steering)
Spencer Mfg Co 225 N Main St Spencer Ohlo Spencer-Safford Loadcraft Inc Augusta Kan "Loadcraft"
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohlo. "Frazier."
Standard Forge & Axle Co., Hunter Station. Montgomery 2, Ala.
Timken - Detroit — See Rockwell - Standard Corp

Corp Torg-less-Corp Torq-less—See Hammer Blow Tool Co Trucktor Corp P O Box 120 Westfield N J United Mfc Co 5250 Dobeckmun Ave Cleve-land 2 Ohio "Caravan"

BABBITT METAL-See Metals, Bearing BACKING FABRIC FOR UPHOLSTERY— See Fabric, Backing (For Upholstery)

BAKING LAMPS-See Lamps, Drying, Baking and Heating

BALANCERS, Portable Tool

Aero-Motive Mfg Co 1803 Alcott St Kalama-zoo 24 Mich "Zoo" (Up to 200 pounds)

Appleton Electric Co 1701 Wellington Ave Chicago 13 Ill "Retract-O-Reel" Benjamin Reel Products Inc 10700 Broadway Cleveland 25 Ohio

Black & Decker Mfg 629 Pennsylvania Ave Towson 4 Md
P—See Chicago Pneumatic Tool Co
New York 17 N Y "CP"
latz Co., 20438 Sherwood Ave., Detroit 34,

Retract-O-Reel—See Appleton Electric Co Zoo—See Aero-Motive Mfg. Co.

BALANCING MACHINES, WHEEL—See Ma-chines, Balancing (Wheel)

BALL BEARING SCREWS—See Screws, Ball Bearing

BALL BEARINGS-See Bearings, Ball

BALL CONES, CUPS and RACES-See Cups and Cones, Ball

BALL JOINTS-See Joints, Ball

BALL RACE GRINDING MACHINES — See Machines, Grinding (Ball Race)

BALL RETAINERS-See Retainers, Ball

BALLS, Bearing

(For use in ball bearings—For complete bearings—See Bearings, Ball) Abbott Ball Co 35 Railroad Pl Hartford 10

Com
Ace Plastic Co 91 Van Wyck Expressway
Jamaica 35 N Y (Plastic and nylon)
Allmetal Screw Products Co 82: Stewart Ave
Garden City N Y (Stainless steel)
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y (Steel)
Atlass—See SkF Industries, inc
Automotive Thrust Bearings Corp 2021 S
Michigan Ave Chicago 16 Ill (Steel)
Coolidge Corp Wildwood Rd & Enoch Dr
Middletown O (Chrome alloy and stainless
steel) steel)

Gwilliam Co 380 Furman St Brooklyn 1 N Y (Steel) Hartford Steel Ball Co Drawer Q Sta A Hart-ford 6 Conn

Ball & Bearing Co Ann Arbor Mich

(Steel)
New Denarture Div General Motors Corp
269 N Main St Bristol Conn (Steel)
Perfect Parts Inc 42 W 22rd St New York 10
N Y (Steel)
SKF Industries Inc Front St & Erie Ave
Philadelphia 32 Pa "Atlas" (Steel)
Strom Steel Ball Co Erwin Tenn (Steel,
brass, bronze, Monel metal and stainless
steel)

Superior Steel Ball Co 20 Lake St New Bri-tain Conn

BAND SAW BLADES—See Blades, Saw (Band)

BAND SAWING MACHINES-See Machines, Sawing (Band)

BANDS, ENDLESS ABRASIVE—See Belts of Bands, Endless Abrasive (Industrial)

BARREL HOLDERS-See Holders, Oil Barrel

BARRELS, Blast Cleaning

Pangborn Corp 200 Pangborn Blvd Hagers-town Md "Rotoblast" Wheelabrator Corp #02 Byrkit St Mishawaka Ind

BARRELS, Burnishing and Tumbling

Abbott Ball Co 35 Railroad Pl Hartford 10

Almco Queen Products Inc 901 Marshall St Albert Lea Minn Baird Machine Co., 1700 Stratford Ave.,

Baird Machine Co., 1700 Stratford Ave., Stratford, Conn. Crown Rheostat & Supply Co 1965 Pratt Blyd Elk Grove Village III (Tumbling) Elliott Mfg Co B W 232 State St Bingham-ton N Y "Vibraslide" Grav-i-Flo Corp 400 Norwood Ave Sturgis Mich.

Mich H-VW-M — See Hanson-Van Winkle-Munning Co
Hanson-Van Winkle-Munning Co Matawan
N J "H-VW-M"

N J "H-VW-M" Hartford Steel Ball Co Drawer Q Sta A Hart-ford & Conn (Tumbling) Lorco—See Lord Chemical Co Lord Chemical Co 2068 S Queen St York Pa

Lorco" cha-Finish Corp 303 W South St Sturgis Mich (Tumbling)
Oakite Products Co 19 Rector St N Y 6 N Y
Pangborn Corp 200 Pangborn Blvd Hagerstown Md (Tumbling)
Rampe Mg Co 3220 St Clair Ave Cleveland
10 Ohio (Tumbling)

Ransohoff Inc N 5th St at Ford Blvd Hamil-Ohio Pinish Co 3700 Milham Rd Kalamazoo

Mich s Inc Frederic B 1800 18th St Detroit Steve

16 Mich 16 Mich Sutton Engineering Co 234 S Potter St Bellefonte Pa (Tumbling) Vibrasified—See B W Elliott Mfg Co Whiting Corp., 157th & Lathrop Sts., Harvey, Ill. (Tumbling.)

BARS, Boring (For Machines)

Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.
Bullard Co 286 Canfield Ave Bridgeport 9
Conn "Multi-Bar"
Chandler Tool Co 514 Ohio Ave Muncie Ind
Clark Co., Robert H., 9330 Santa Monica
Blvd., Beverly Hills, Calif.
Davis Boring Tool Div of Giddings & Lewis
Machine Tool Co 475 S Seymour St Fond

Machine Tool Co 475 S Seymour St Fond du Lac Wis Detroit Boring Bar Co., 690 E. Fort St., De-troit 26, Mich. Ferry Machine Co P O Box 299 Kent Ohio Fry Tool Mfg Co Eaton Ohio Gairing Tool Co 21221 Hoover Rd Detroit 32

Mich Globe Heat-Seal Inc 3389 Robertson Blvd Los Angeles 34 Calif Lovejoy Tool Co., 133 Main St., Springfield, Vt.

McCrosky Tool Corp., S. Main St., Meadville, Madison Mfg Co 687 W Clay St Muskegon

Mich
Mallory & Co P R 3029 W Washington St
Indianapolis 6 Ind
Maxwell Co 493 E Fifth St Ashtabula Ohio
Muti-Bar—See Bullard Co.
O K Tool Co Milford N H
Scully-Jones & Co 1977 S Rockwell St Chicago 8 III
Universal Engineering Co 126 N Main St
Frankenmuth Mich
Viking Tool Co 1000 Nichols Rd Shelton
Conn Viking Conn

Conn
Wesson Tool Co 12200 Woodward Heights
Blyd Ferndale 20 Mich (Adjustable)
Wetmore Reamer Co., 420 N. 27th St., Milwaukee S, Wis. (Adjustable.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7. N. Y

CORED AND SOLID-See Metals, BARS. Bearing

BARS, Draw

(For trailer connection)

Holland Hitch Co 430 W 18th St Holland Mich Premier Mfg Co 4434 S E 25th Ave Portland

BARS, STEEL-See Steel or Iron, Bar; also Steel, Cold Rolled and Drawn Bar

BASE PLATES-See Plates, Surface and Base

BASKETS, Dipping

Buffalo Wire Works Co 506 Terrace St Buffalo 2 N Y
Cambridge Wire Cloth Co Cambridge Md
(For heat treating)
Circo Equipment Co 120 Central Ave Clark
(Rahway) N J

Circo Equipment Co 120 Central Ave Clark (Rahway) N J Cleveland Wire Cloth & Mfg. Co., 2573 E. 78th St., Cleveland 5, Ohlo. Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. Darby & Son, Edw. J., 1517 Germantown Ave., Philadelphia 22, Pa. "Pennsylvania." Jeliiff Mfg. Corp., C. O., Pequot Rd., Southport. Conn.
K & B.—See Kirk & Blum Mfg Co Kirk & Blum Mfg Co Sito Forrer St Cincinnati 9 O "K & B" Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco" Misco—See Michigan-Standard Alloy Casting Co

ing Co
Pensylvania—See Edw. J. Darby & Son.
Pressed Steel Co 705 N Pennsylvania Ave
Wilkes-Barre Pa
Rolock, Inc., 1350 Kings Highway, Fairfield,
Conn.
Smith Co., John P., 433 Chapel St., New
Haven 7, Conn.
Stevens Inc Frederic B 1800 18th St Detroit
16 Mich
Tyler Co. W S. 2415 Co.

16 Mich Tyler Co., W. S., 3615 Superior Ave., Cleve-land 14, Ohlo. Wheeling Bronze Casting Co 36th & Mc-Colloch Sts Wheeling W Va

BATTERIES, Dry

Bright Star Industries, 600 Getty Ave Clitton Burgess Battery Co Ft of Exchange St Free-port III

BATTERIES, Dry-continued

Eveready—See National Carbon Co General—See Mallory Battery Co Mallory Battery Co 13000 Athens Ave W Cleveland 7 Ohio "General" Mallory & Co P R 3029 E Washington St Indianapolis 6 Ind (Mercury) National Carbon Co 30 E 42nd St New York 17 N Y "Eveready" Olin Mathleson Chemical Corp 275 Win-chester Ave New Haven 4 Conn Ray-O-Vac Co 212 E Washington Ave Madi-son 10 Wis Underwood Battery Co 1220 W 6th St Cleve-land 13 Ohio (Flashlight)

BATTERIES, Storage (Auto)

American Battery Co 1520 McGavock St Nashville 3 Tenn Am-plus Storage Battery Co 1000 W 94th St Chicago 20 III Atlantic Battery Co 80 Elm St Watertown 72 Mass (Auto truck and bus) Auto-Lite—See Electric Auto-Lite Co Bowers Battery & Spark Piug Co., Reading, Pa.

Mass (Auto truck and bus)
Auto-Lite—See Electric Auto-Lite Co
Bowers Battery & Spark Fing Co., Reading,
Fa.,
Cargo—See Ebert-Allen Battery Co.
Coliseum—See Universal Battery Co.
Comet—See Standard Electric Co.
Continental Battery Co 1914 S Central Expressway Dallas 15 Tex.
Continental Mig Corp 10411 W Washington
Blvd Culver City Calif "Life-Time"
Corsair—See Scranton Storage Battery Corp
Crescent Battery & Light Co 318 Camp St
New Orleans 12 La
Cumberland Battery Mig Co 201 First Ave S
Nashville 3 Tenn "Southern"
Deka—See East Penn Mig Co
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Douglas Battery Mig Co Winston Salem N C
Duragilde—See Pate Oil Co
Duroc—See Scranton Storage Battery Corp
East Penn Mig Co Lyons Station Pa "Deka"
Ebert-Allen Battery Co 630 Tyler St Joplin
Mo "Cargo"
Electric Auto-Lite Co Battery Divs Toledo 1
Ohio "Auto-Lite"
Electric Storage Battery Co Automotive Div
246 E 121st St Cleveland 1 Ohio "Exide"
St Cleveland 1 Ohio): "Grant" (sole distributor Grant Storage Battery Div Electric Storage Battery Co 246 E 131st
St Cleveland 1 Ohio): "Willard" (sole distributor Grant Storage Battery Div Electric Storage Battery Co 246 E 131st
St Cleveland 1 Ohio): "Willard" (sole distributor Grant Storage Battery Div Electric Storage Battery Co 246 E 131st
Cleveland 1 Ohio): "Willard" (sole distributors Willard Storage Battery Div
Electric Storage Battery Co 246 E 131st
Cleveland 1 Ohio)
Exeter—See Electric Storage Battery Co
Automotive Div
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron 17 Ohio
Ful-O-Pep—See Standard Electric Co.
Gates Rubber Co 299 S Broadway Denver 17
Colo (Truck and bus)
Geldel Battery Mig Co., 3393 Bigelow Blvd.,
Fittsburgh 19. Pa.
General Tire & Rubber Co 1246 E Ave., Milwaukee 1. Wis.
Goodyaar Tire & Rubber Co 1144 E Market

lands Calif
Globe Union. Inc., 900 E. Keefe Ave., Milwaukee I. Wis.
Goodyear Tire & Rubber Co 1144 E Market
St Akron 16 Ohio
Gould-National Batteries Inc E-1201 First
National Bank Bldg St Paul 1 Minn
"Gould" "Hobbs" "National" "Vesta"
Grant—See Electric Storage Battery Co
Grant Scott Mariatt Battery Div 1112 Industrial Ave Danville Ill "Mariatt"
Gulf Oil Corp 1822 Gulf Bldg Pittsburgh 30
Pa

Pa.

Hester Battery Mfg Co 10 Culvert St Nashville Tenn
Hobbs—See Gould-National Batteries Inc
Kelly-Springfield Tire Co P O Box 300 Cumberland Md
Laher Battery Production Corp 2615 Magnolla St Oakland 7 Cal "Exeter," "Laher"
& "Mustang"
Lee Rubber & Tire Corp Conshohocken Pa
Life-Time—See Continental Mfg Corp
Lyons—See Price Battery Corp
Marathon—See Reliance Battery Products Co.
Mariatt—See Scott Grant Mariatt Battery
Div

Multnomah—See Nic-L-Silver Battery Co Mustang—See Laher Battery Production

Corp National—See Gould-National Batteries Inc Nic-L-Silver Battery Co 600 Terminal St Santa Ana Calif "Multnomah" "Nic-L-Silver" Co. Pairs Battery Bodder

Packard—See Reliance Battery Products Co. Pate Oil Co 3460 W Leeds Pi Milwaukee 15 Wis "Duraglide"

Pennsylvania Tire Co P O Box 377 Mansfield Ohio
Perrine Batterry Corp \$5 Rumford Ave Waltham Mass "Perrine Polar Bear"
Perry Batteries \$102 Corunna Rd Flint 3 Mich (Auto and bus)
Prest-O-Lite Battery Div Electric Auto-Lite Co Toledo Ohio
Price Battery Corp Grand St Hamburg Pa "Thor" ("Lyons" sole distributors Lyons Storage Battery Co Hamburg Pa; "Witherbee" sole distributors Witherbee Storage bee" sole distributors Witherbee Storage Battery Co Hamburg Pa) Prime Battery Mfg Co 2001 W 8th St Ander-son Ind

Put Battery Charger Co 1207 Castle St Dal-

Put Battery Charger Co 1207 Castle St Dallas Tex
Reading Batteries Div Electric Auto-Lite Co
4700 Fifth Street Highway Temple Pa
"Rebat"
Rebat—See Reading Batteries Div Electric
Auto-Lite Co
Red Diamond Battery Mfg Co 1415 N Adams
St Peoria 3 Ill
Reliable—See Standard Electric Co.
Reliance Battery Products Co 2211 S Eighth
St Council Bluffs Iowa "Marathon" "Packard" "Reliance"
Scranton Storage Battery Corp Delaware St
Scranton Storage Battery Corp Delaware St

Scranton Storage Battery Corp Delaware St Archbald Pa "Corsair" "Duroc" "Scran-Southern—See Cumberland Battery Mfg Co Southland Battery Co 2040 Amelia St Dallas

Southland Battery Co 2040 Amelia St Dallas Tex Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex. "Reliable." "Stelco," "Ful-O-Pep," "Comet." "Star." "Stelco," "Ful-O-Pep," "Comet." Star—See Standard Electric Co. States Batteries Inc 3455 S Lacienega Blvd Los Angeles 18 Calif Stelco—See Standard Electric Co. Surrette Storage Battery Co., Jefferson Ave., Salem. Mass.

Thor—See Price Battery Corp.
Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill. "Universal." "Coliseum." Vesta—See Gould-National Batteries Inc Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill. Willard—See Electric Storage Battery Co Wisco—See Wisconsin Storage Battery Co Wisco—See Wisconsin Storage Battery Co Racine Wis "Wisco" Witherbee—See Price Battery Corp

BATTERIES, Storage (Industrial) (For industrial trucks and tractors)

& D Batteries, Inc., Conshohocken, Pa. rescent Battery & Light Co 818 Camp St

C & D Batterles, Inc., Conshohocken, Pa. Crescent Battery & Light Co 818 Camp St New Orleans 12 La Edison—See Storage Battery Div Thomas A Edison Industries Exide Industrial Div Electric Storage Bat-tery Co Industrial Div 2 Penn Center Plaza 15th St & Pennsylvania Blvd Philadelphia

Pa Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J "Gould." "Kathanode"

Hester Battery Mfg Co 10 Culvert St Nash-ville Tenn

W Battery Co 3555 Howard St Skokie III athanode—See Gould-National Batteries Kathanode—See Gouid-Market Auto-Lite Reading Batteries Div Electric Auto-Lite Co 4700 Fifth Street Highway Temple Pa "Rebat"

"Rebat"

"Rebat"

"Rebat"

"Rebat"

Rebat—See Reading Batteries Inc Storage Battery Div Thomas A Edison In-dustries McGraw-Edison Co West Orange N J "Edison"

BATTERY CARRIERS—See Carriers, Storage

BATTERY CHARGERS, INDUSTRIAL TRUCK-See Chargers, Battery (Industrial Truck)

BATTERY PARTS and SUPPLIES—See Bolts.
Battery Hold Down: Boxes, Battery; Cables; Clamps, Battery Hold Down; Compounds, Battery Sealing; Covers, Storage Battery; Electrolyte; Paints; Storage Battery Terminal; Parts, Storage Battery; Separators, Storage Battery; Terminals, Storage Ba

BATTING, COTTON-See Wadding and Batting, Cotton

BEARING METALS-See Metals, Bearing BEARING OIL GROOVING MACHINES—See Machines, Oil Grooving

BEARINGS, Ball

(See also Balls, Bearing; Cups and Cones Ball; also Retainers Ball)

ATB—See Automotive Thrust Bearings Corp Aetna Ball & Roller Bearing Co Div of Park-eraburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill (Thrust and angular con-

Ahlberg Bearing Co 3025 W 47th St Chi-cago 32 Ill American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y. Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Yo. PO Box 570 September 1

Brooklyn 1, N. Y.
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y
Andrews Bearing Co PO Box 570 Spartanburg S C
Automotive Thrust Bearings Corp 2021 S
Michigan Ave Chicago 16 ill "ATB"
BCA—See Bearings Co of America Div Federal-Mogul-Bower Bearings Inc
B&RB—See Ball & Roller Bearing Co.
Ball & Roller Bearing Co., 22 Maple Ave.,
Danbury, Conn. "B&RB."
Bearings Co of America Div of FederalMogul-Bower Bearings Inc 501 Harrisburg
Ave Lancaster Pa "BCA"
Boston Gear Works Div Murray Corp 14 Hayward St Quincy 71 Mass
Briney Mfg Co 1165 Seba Rd Pontiac Mich
Burgess-Norton Mig Co. 41 Feyton St
Geneva Ill (Assemblies)
Consolidated Bearings Co 13 Frinceton St
East Orange N J "SRO" "FAG"
Continental Bearings Corp 2515 S Wabash
Ave Chicago 16 Ill
FAG—See Consolidated Bearings Co
Fafnir Bearing Co., 37 Booth St.. New
Britain, Conn.
Federal Bearings Co., 17 Fairview Ave.,
Poughkeepsie, N. Y
Glipak Automotive Products Div Packer
Auto Parts Inc Roselle N J
Green Ball Bearing Co, Ann Arbor, Mich.
International Parts Corp., 11th & State Sts.,
Chicago 6, Ill.
Kaydon Engineering Cosp Muskegon Mich
L & S Bearing Co, 68 Pennsylvania Ave
Oklahoma City Okla.

Kaydon Engineering Corp Muskegon Mich Kaydon Engineering Corp Muskegon Mich L & S Bearing Co 6 S Pennsylvania Ave Oklahoma City Okla M-R-C-Sae Marlin-Rockwell Corp Majestic Bearing Div of Continental Bear-ings Corp 2515 S Wabash Ave Chicago 18

Marlin-Rockwell Corp 402 Chandler St Jamestown N Y "M-R-C" (Sole distribu-tors to replacement trade, M-R-C Bear-ings Service Co Jamestown N Y) Master Parts Div Airtex Products Inc Fair-field Ill

field III
New Departure Div General Motors Corp
269 N Main St Bristol Conn
Nice Ball Bearing Co. 30th St & Hunting
Park Ave Philadelphia 40 Pa
Norma-Hoffmann Bearings Corp Hamilton
Ave Stamford Conn
Perfect Parts Inc 43 W 23rd St New York 10
V Y

KF Industries Inc Front St & Erie Ave Philadelphia 32 Pa "SKF" & "Hess

Bright"
SkO-See Consolidated Bearings Co.
Schatz Mfg Co Poughkeepsle N Y
Scalmaster-See Stephens-Adamson Mfg. Co.
Stephens-Adamson Mfg. Co., 150 Ridgeway
St. Aurora, III. "Sealmaster."
Thomson Industries Inc 1029 Plandome Rd
Manhasset N Y
Wagner Mfg Co E R 4611 N 32nd St Milwaukee 18 Wis

BEARINGS, BRONZE — See Bearings and Bushings, Bronze

BEARINGS, Clutch Throwout

A.T.B.—See Automotive Thrust Bearings Corp. Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill

Aetna Ball & Roller Bearing Co Div of Park-ersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ili (Ball)

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y

Automotive Thrust Bearings Corp., 2021 Michigan Ave., Chicago 16, Ill. "A.T.B. BCA—See Bearings Co of America Div of Federal-Mogui-Bower Bearings Inc Bearings Co of America Div of Federal-Mogui-Bower Bearings Inc 501 Harrisburg Ave Lancaster Pa "BCA"

Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio

Green Ball Bearing Co 9518 Cassius Ave Cleveland 5 Ohio

Cievaland 5 Ohio

L & S Bearing Co & S Pennsylvania Ave
Oklahoma City Okla
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Nice Ball Bearing Co., 30th St. & Hunting
Park Ave. Philadelphia 40. Pa.
Perfection Gear Co 152nd St & Vincennes
Ave Harvey Ill
Preferred Electric Wire Co Bush Terminal
Bidg No 8 Brooklyn 32 N Y

Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon." Purebon-See Pure Carbon Co. SKF industries inc Front St & Erle Ave Philadelphia 32 Pa Schatz Mfg Co Poughkeepsie N Y

BEARINGS, CONNECTING ROD—See Bearings and Bushings, Bronze-Backed; also Bearings and Bushings, Die Cast (Babbit, etc.); also Bearings & Bushings, Steel-Backed

BEARINGS, METALLIC POWDER - See Parts, Metallic Powder

BEARINGS, NEEDLE ROLLER—See Bear-ings, Roller (Needle)

BEARINGS, Roller

(See also Bearings, Roller, Tapered)

Continental Bearings Corp 2515 S Wabash Ave Chicago 16 III
FAG—See Consolidated Bearings Co
Geneva Metal Wheel Co., 191 Factory Row,
Geneva, Ohlo.
Glipak Automotive Products Div Packer
Auto Parts Inc Roselle N J
Gwilliam Co 360 Furman St Brooklyn 1 N Y
Hess Bright—See SKF Industries Inc
Hoover Ball & Bearing Co., Ann Arbor, Mich,
Hyatt Bearings Div., General Motors Corp.,
Harrison, N. J.
International Parts Corp., 11th & State Sts.,
Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich,
L & S Bearing Co & S Pennsylvania Ave
Oklahoma City Okla
Majestic Bearing Div of Continental Bearings Corp 2515 S Wabash Ave Chicago 16
Ill
Norma-Hoffmann Bearing Corp., Hamilton

Norma-Hoffmann Bearing Corp., Hamilton, Ave., Stamford, Conn.
Orange Roller Bearing Co., 557 Main St., Orange, N. J.
R B C—See Roller Bearing Co. of America. Roller Bearing Co. of America. Sullivan Way West Trenton N J "R B C"
Rollway Bearing Co 541 Seymour St Syracuse 4 N Y

4 N Y

SKF Industries Inc Front St & Erie Ave
Philadelphia 32 Pa "SKF" & "Hess
Bright" (Also cylindrical and spherical)
SRO—See Consolidated Hearings Co
Timken Roller Bearing Co 1835 Dueber Ave
S W Canton 6 Ohio
Torrington Co 59 Field St Torrington Con
Tyson Bearing Co Div of SKF Industries
Inc Oberlin & Thomas Aves Massillon
Obio

BEARINGS, Roller (Needle)

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y Kaydon Engineering Corp., Muskegon, Mich. Orange Roller Bearing Co., 557 Main St.. Orange, N. J. Orange, N. J.
Perfect Parts Inc 43 W 23rd St New York 10
N Y

Torrington Co 59 Field St Torrington Conn

BEARINGS, Roller, Tapered (Auto)

American Ball Bearing Co., 70 Flushing Ave.,
Brooklyn 1, N. Y.
Bower Roller Bearing Div Federal-MogulBrower Bearings Inc 3040 Hart Ave Detroit 14 Mich
Hyatt Bearings Div General Motors Corp
Harrison N J
SKF Industries Inc Front St & Erie Ave
Philadelphia 32 Pa
Timken Roller Bearing Co 1835 Dueber Ave
S W Canton 6 Ohio
Tyson Bearing Co Div of SKF Industries
Inc Oberlin & Thomas Aves Massillon
Ohio

BEARINGS, Shaft, Oilless (Industrial) Bound Brook Oil-Less Bearings Co., Bound Brook. N. J. Bronze Bearings Inc 340 North Ave E Cran-ford N

Chrysler Corp Amplex Div 6501 Harper Ave Detroit 31 Mich "Oilite" Gatke Corp 228 N La Salle St Chicago 1 Ill "Gatke Grafitex"

Gatke Corp 228 N La Sane
"Gatke Corp 228 N La Sane
"Gatke Grafitex"
Johnson Bronze Co 510 S Mill St New Castle
Johnson State St St Marys Pa "Ledaloy!"

Keystone Carbon Co 1935 State St St Marys
Pa "Selfube" (Porous bronze iron and

Keystone Carbon Co 1935 State St Marys
Pa "Selfiube" (Porous bronze iron and
stainless steel)
Ledaloyl—See Johnson Bronze Co
Moraine Products Div General Motors Corp
1420 Wisconsin Blvd Dayton Ohio
Oillite—See Chrysler Corp Amplex Div
Randali Graphite Bearings Inc Greenlawn
& Lake Sts Lima Ohio
Selfiube—See Keystone Carbon Co
Wakefield Bearing Corp 29 Foundry St
Wakefield Bearing Corp 29 Foundry St

BEARINGS THRUST-See Bearings, Ball; also Bearings Roller

BEARINGS and BUSHINGS, Aluminum

Federal-Mogul Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit 13 Mich

Actna Ball & Roller Bearing Co Div of Parkersburg-Actna Corp 4600 Schubert Ave Chicago 39 Ill
American Ball Bearing Co., 70 Flushing Ave.
Brooklyn 1, N. Y.
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Automotive Thrust Bearings Corp 2021 S
Michigan Ave Chicago 16 Ill
B&RB—See Ball & Roller Bearing Co
Ball & Roller Bearing Co
Ball & Roller Bearing Div Federal-Mogul-Bower Bearings Inc 3040 Hart Ave Detroit 14 Mich
Consolidated Bearings Co 12 Princeton St East Orange N J "SRO" & "FAG"
Continental Bearings Corp 2515 S Wabash Ave Chicago 16 Ill
FAG—See Consolidated Bearings Co
Continental Bearings Corp 2515 S Wabash Ave Chicago 16 Ill
FAG—See Consolidated Bearings Co

Bushings, Bronze-Backed)
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite" (Bushings)
American Motor Products Co Fond du Lac Wis "Ampco" (Bushings)
Ampco—See American Motor Products Co (Bushings)
American Non-Gran Bronze Co 511 Old Lancaster Rd Berwyn Pa (Bushings)
Andrew Parts Miz Cn 32-70 31st St Long Island City 6 N Y (Bushings)
Autocrat—See United American Metals Corp.
Bear-N-Bronz—See Boston Gear Works Div Murray Corp

Bear-N-Bronz—See Boston Gear Works D. Murray Corp
Murray Corp
Bearium Metals Corp Mill & Commercial Sts
Rochester 14 N Y
Beckett Bronze Co. 20th & S. Wainut Sts.,
Muncle, Ind. (Bushings.)
Boston Gear Works Div Murray Corp 14 Hayward St Quincy 71 Mass "Bear-N-Bronz"

ward St Quincy 11 mass.

Bearings Inc 340 North Ave E Cranford N J

Buckeye Brass & Mfg Co 6410 Hawthorne
Ave Cleveland 3 Ohio

Bunting Brass & Bronze Co.. 715 Spencer
St., Toledo 9, Ohio. (Bushings.)

Burlington Brass Works Burlington Wis

et., Toledo 9, Chio. (Bushings.)
Burlington Brass Works Burlington Wis
(Bushings)
Cannon Bronze Corp Keithsburg III (Special
thrust bearings; special bushings)
Centrificast—See United American Metals
Corp. ele Z RFD #2 Pomfret Center Conn

Circle Z RFD #2 Foliate
(Bushings)
Cleveland Graphite Bronze Div of Clevite
Corp 17000 St Clair Ave Cleveland 10 Ohlo
(Bushings)
Coprex—See Wakefield Bearing Corp
Durex—See Moraine Products Div General
Majora Corp Motors Corp. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51. III "Filled" (Generalur

Chicago 51. Ill "Filton" ("Generalur starter and distributor bushings.)
Federal-Mogul Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit 13 Mich (Bronze on steel bushings)
Filko—See F. & B. Mfg. Co.
Grand Haven Rrace Foundry. 228 N. Hopkins St., Grand Haven, Mich. (Bushings.)
Guaranteed Farts Co. Sender Falia, N. Y. (Generator and starter bushings.)
Johnson Bronze Co., 510 S. Mill St., New Castle, Pa. (Bushings.)
Keystone Carbon Co 1936 State St St Marys Pa "Selfube" (Bushings.)
Markey Bronze Bushing Co. Delta, Ohlo.
Moccasin Bushing Co 2000 Chestnut St Chattanooga Tenn (Bushings)
Moraine Products Div General Motors Corp. 1420 Wisconsin Blyd Dayton Ohio "Durex" "Moraine" (Bushings)
Perfect Parts Inc 43 W 32rd St New York 10

"Moraine" (Bushings)

Perfect Parts Inc 43 W 23rd St New York 10

N Y (Connecting rod and piston pin bush-

N Y (Connecting rod and piston pin bushings)

Permite—See Aluminum Industries Inc

Pittsburgh Brass Mfr Co. 3155 Penn Ave.,

Pittsburgh 1, Pa. (Bushings.)

Randall Graphite Bearings Inc Greenlaw & Lake Sts Lima Ohio (Bearings)

Selflube—See Keystone Carbon Co.

Shenango Furnace Co Centrifugal Cast

Products Div Dover Ohio

Standard Brass Works, 1816 W St. Paul

Ave., Milwaukee, Wis. (Bushings.)

Superior Kendrick Bearings Inc 312 S Crawford St Detroit 17 Mich

True Alloys Inc 284 S Summit St Detroit 9
Mich (Bushings)
United American Metals Corp 970 Meeker
St Brooklyn 22 N Y "Autocrat" "Centrificast" "XX Autocrat" (Bushings)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y (Bushings)

Valley Forge Products Inc 370 13th St Brook-lyn 15 N Y (Bushings)

Wagner Mfg. Co., E. R., 4611 N, 32nd St.,
Milwaukee 16 Wis (Bushings)

Wakefield Mass "Coprex" (Bushings)

Wakefield Mass "Coprex" (Bushings)

Wheeling Bronze Casting Co 36th & Mc-Colloch Sts Wheeling W Va (Bushings) Autocrat-See United American Metals

BEARINGS and BUSHINGS,

Bronze-Backed

(See also Bearings and Bushings, Die Cast (Babbitt, etc.); also Bearings and Bushings, Bronze; also Castings, Die; for bearing or bushing metal—See Metals, Bearing Cast (Bas Bushings, B

Bearing)
Bohn Aiuminum & Brass Corp 1400 Lafayette Bidg Detroit 26 Mich "Bohnalite"
Bronze Bearings Inc 340 North Ave E Cranford N J
Buckeye Brass & Mfg Co 6410 Hawthorne
Ave Cleveland 3 Ohio
Bunting Brass & Bronze Co 715 Spencer St
Toledo 9 Ohio
Cleveland Graphita Processing

leveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio



Circle 212 on Inquiry Card for more data

for the right bearing in the right place

Whatever the bearing problem, you will save yourself time and trouble . . unbiased advice . . . by calling in BDSF. For BDSF is the one bearing manufacturer selling all four basic types of anti-friction bearings: Ball, Cylindrical Roller, Spher-ical Roller, and Tapered Roller Bearings. AKF INDUSTRIES, INC., PHILA. 32, PA. 7714



Circle 213 on Inquiry Card for more data

BRONZE

Thrust BEARINGS Crankshaft WASHERS RINGS and SPECIAL BUSHINGS

CANNON BRONZE CORP.

Keithsburg, Illinois

Circle 214 on Inquiry Card for more data

BEARINGS and BUSHINGS, Bronze-Backed-continued

Detroit Aluminum & Brass Corp 3975 Chris-topher Ave Detroit 11 Mich (Bearings) Federal-Mogul Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit

Bronze Co., 510 S. Mill St., New

Castle, Pa.

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)

Pioneer Motor Bearing Co 116 Beacon St. South San Francisco 9 Calif (Babbitt

BEARINGS and BUSHINGS, Die Cast, Babbitt, etc.

(See also Bearings and Bushings, Bronze-backed; also Bearings and Bushings, Bronze; also Castings, Die; for bear ng or bushing metal—See Metals, Bearing)

Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio Detroit Aluminum & Brass Corp 3975 Chris-topher Ave Detroit 11 Mich "Michigan"

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.) Mallory & Co., P. R., 3029 E. Washington St., Indianapolis, Ind.

Michigan-See Detroit Aluminum & Brass

Corp. National Molded Products Inc 40 S St Marys St St Marys Pa

BEARINGS and BUSHINGS, Nylon

Danco-See Danielson Mfg Co Danielson Mfg Co Danielson Conn "Danco"

Polymer Corp 2120 Fairmont Ave Reading Pa "Polypenco" Polypenco-See Polymer Corp Thomson Industries Inc 1029 Plandome Rd Manhasset N Y "Nylined"

BEARINGS and BUSHINGS, Self-

Lubricating (Auto) (Impregnated wood, graphite bronze or porous bronze)

Autolube-See International Powder Metal-

Autolube—see Interest in the Commercial Star Rochester 14 N Y

Bost-Bronz—See Boston Gear Works Div

Bost-Bronz—See Boston Gear Works Div
Murray Corp
Boston Gear Works Div Murray Corp 14
Hayward St Quincy 71 Mass "Bost-Bronz"
Bound Brook Oil-Less Bearing Co., Bound
Brook, N. J. ("Powdiron" Porous iron.
"Compo" porous bronze; "Bound Brook"
graphited-bronze.)
Buckeye Brass & Mrg Co 6410 Hawthorne
Ave Cleveland 3 Ohio
Bunting Brass & Bronze Co., 715 Spencer
St., Toledo 9, Ohio.
Carbolube—See Carbone Corp
Carbone Corp Myrtle Ave Boonton N J "Carbolube"

Bridgeport Thermostat Div., RobertshawFulton Controls Co 115 Hill St Milford

Chrysler Corp Amplex Div 6501 Harper Ave Detroit 31 Mich "Oilite" (Bronze and steel)
Cleveland Graphite Bronze Div of Clevite
Corp 17000 St Clair Ave Cleveland 10 Ohio
Compo—See Bound Brook Oil-Less Bearing

Corp 17000 St Clair Ave Cleveland 10 Unio Conjusses Bound Brook Uil-Less Bearing Co.
Consolidated Bearings Co 13 Princeton St East Orange N J "PAG" & "SRO"
Detroit Sintered Metals Corp 715 Spencer St Toledo 1 Ohio (Porous bronze porous iron-copper & porous iron).
Ductiloy—See National Molded Products Inc FAG—See Consolidated Bearings Co
F & B Mfg Co 4248 W Chicago Ave Chicago 1
III. "Gatke Graftex."
Gramix—See United States Graphite Co.
Graphex—See Wakefield Bearing Corp Graphitar—See United States Graphite Co.
International Powder Metalluray Co 429 W Main St Ridgway Pa "Autolube"
Castle, Pa.
Keystone Carbon Co 1935 State St St Marys
Pa "Selfiube"
Moraine Products Div General Motors Corp 1420 Wisconsin Bivd Dayton Ohio
National Molded Products, Inc., 40 S. Marys St., St. Marys, Pa. "Ductiloy."
Sintrioy." (Bronze.)
Neveroli—See O& S Bearing & Mfg Co
O & S Bearin

Pobco—See Paramount Oilless Bearing Co Powdiron—See Bound Brook Oil-Less Bearing Co.

ing Co.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys.
Pa. "Purebon."

Fa. "Purebon."
Randall Graphite Bearings Inc Greenlawn & Lake St Lima Ohio SRO—See Consolidated Bearings Co Selfube—See Keystone Carbon Co Sintrioy—See National Moided Products, Inc. United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "Gramix," "Graphitar."

tar."
Wakefield Bearing Corp 29 Foundry St
Wakefield Mass "Graphex" "Woodex"
Woodex—See Wakefield Bearing Corp

BEARINGS and BUSHINGS, Steel-**Backed**

Al-Fin Div., Fairchild Engine & Airniane Corp., Deer Park, L. I., N. Y. (Alumi-num lined.) Bimetal—See Cleveland Graphite Bronze Div Bohn Aluminum & Brass Corp 1400 Lafay-ette Bidg Detroit 26 Mich "Bohnalite"

Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio "Clevite 77" "Bimetal" "Trimetal" Clevite 77-See Cleveland Graphite Bronze

DIV etroit Aluminum & Brass Corp 3975 Chris-topher Ave Detroit 11 Mich "Michigan" (Bearings)

Dura-Bond Bearing Co 715 Loma Verde Ave Palo Alto Calif (Babbitt lined bearings) Federal-Mogul Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit 13 Mich

International Parts Corp., 11th & State Sts., Chicago 5, Ill.

Johnson Bronze Co 510 8 Mill St New Castle

McQuay-Norris Mig. Co., 2320 Marconi St. St. Louis, Mo. (Bearings.) Michigan-See Detroit Aluminum & Brass

Corp.
Moraine Products Div., General Motors
Corp., 1420 Wisconsin Blvd., Dayton, Ohlo
Pioneer Motor Bearing Co 116 Beacon Si
South San Francisco 9 Calif (Babbitt lined) Thompson Products Inc 23555 Euclid Ave

Thompson Products Inc 25006 Euclid Ave Cleveland 17 Ohio Toledo Steel Products Div Thompson Prod-ucts Inc 6402 Cedar Rd Cleveland 3 Ohio (Engine bearings) Trimetal—See Cleveland Graphite Bronze

Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co 115 Hill St Milford Conn (Thermostatic) Bristot Co Waterbury 20 Conn Flexonics Corp 1315 S Third Ave Maywood

Ill
Fulton Sylphon Div., Robertshaw-Fulton
Controls Co., W. Cumberland Ave., Knoxville 1, Tenn. "Sylphon." (Thermostatic.)
Hydron—See Standard-Thomson Corp
Standard-Thomson Corp Clifford Mfg Co
Div 152 Grove St Waltham 54 Mass "Hydron"

Industrial Heating Equip Co 3570 Fremont Pi Detroit ? Mich Manhattan—See Raybestos-Manhattan Inc May-Fran Engrg inc 1744 Clarkstone Rd Cleveland 12 Ohio (Hinged-type steel) Isaybestos-Manhattan Inc Manhattan Rub-ber Div 61 Willet St Passaic N J "Man-

hattan"
Red Tag—See Cyclone Fance Dept
Republic Rubber Div Lee Rubber & Tire
Corp Albert St Youngstown 1 Ohio "Super-Excelo"
Scandinavia Belting Co 744 Broad St New-ark 1 N J "Scandura"

BELTING, Fabric (Industrial)

hattan'

Black Diamond-See Uniform Hood Lace Co. Buffalo Weaving & Belting Co., 260 Chandler St., Buffalo 7, N. Y.

Camelcot-See Rossendale Ruboil Co. Camel Hair-See Rossendale Ruboil Co. Challenger-See Republic Rubber Div Dick Co R & J Passaic N J "Dickbelt" Dickbelt-See R. & J. Dick Co.

Durbar-See Rossendale Ruboil Co. Fentonia—See Scandinavia Belting Co. Haywood Industries P O Box 1004 Dayton 1 Ohio "Modac"

Hetmaco-See Hettrick Mfg. Co. Hettrick Mfg. Co., Summit & Magnolia St Toledo, Ohlo. "Hetmaco," "Hotop," "Ma abar."

abar."

Hotop—See Hettrick Mfg. Co.
Malabar—See Hettrick Mfg. Co.
Modac—See Haywood Industries
Republic Rubber Div Lee Rubber & Tire
Corp Albert St Youngstown 1 Ohio "Challenger"
Rossendale Ruboil Co., 30 Euclid Ave., Newark, N. J. "Camel Hair," "Camelcot,"
"Ruboil," "Durbar."
Ruboil—See Rossendale Ruboil Co.
Rusco—See Russell Mfg. Co.

Rusco—See Russell Mfg. Co.
Russell Mfg. Co., Middletown, Conn. "Rusco."
Scandilax—See Scandinavia Belting Co.
Scandinavia Belting Co. 744 Broad St Newark 1 N J "Scandinavia" "Fentonia"
"Scandilax"
Shawmut—See Wellington Sears Co.
Stetex—See A. T. Stevens Co.
Stevens Co., A. T., 118 E. 28th St., New York 16. N. Y. "Stetex."
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond"
Wellington Sears Co., 65 Worth St., New York 13, N. Y. "Shawmut." Rusco-See Russell Mfg. Co.

BELTING, Flexible Wire (Industrial)

Audubon Wire Cloth Corp., Richmond St. & Castor Ave., Philadelphia 24, Pa. Wickwire Spencer Steel Div of Colorado Fuel & Iron Corp 575 Madison Ave N Y 22 N Y

BELTING, Leather (Industrial)

Albeco—See American Leather Belting Co. Allen Mfg. Co., W. D., 566 W. Lake St., Chicago, III.
American Leather Belting Co., 1455 W. Congress St., Chicago, III. "American," "Albeco," "Wizard," "Holdtite," "Flex-Oak."

Bedrock-See Whiting Leather & Belting

Co. Chicago Allis Mfg Corp 113 N Green St Chi-cago 7 Ill "Reliance" "Sea Lion" "Old Grizzly" "Imperial" "Sterling" Du-O-Tan-See Whiting Leather & Belting

-See Whiting Leather & Belting Co.

Finder Leather Belling Co.
Fisher Leather Belling Co. 225 N Third St
Philadelphia 6 Pa "Kanthurt" "Fisher"
"Kan-Oak" "Kingfisher" "King-Oak"
Flex-Oak—See American Leather Belting Co
Graton & Knight Co., 356 Franklin St.,
Worcester 4, Mass. "Research."
Gripotan—See J E Rhoads & Sons
Gripper—See Rawhide Products Co.
Hardwear—See Whiting Leather & Belting
Co.

Mardwear—See Whiting Leather & Belting Co.
Holdtite—See American Leather Belting Co.
Houghton & Co., E. F., 303 W. Lehigh Ave.,
Philadelphia 23, Pa. "Vim Tred."
Imperial—See Chleago-Allis Mfg Corp
Kan-Oak—See Fisher Leather Belting Co
King-Oak—See Fisher Leather Belting Co
King-Oak—See Fisher Leather Belting Co
Miracle—See Rawhide Products Co
Oli Grizzy—See Chicago-Allis Mfg Corp
Rawhide Products Co Michigan Ave
Kenliworth N J "Gripper" "Miracle"
Reliance—See Chicago-Allis Mfg Corp
Research—See Graton & Knight Co.
Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del "Tannate" "Stronghold"
"Gripotan"

Sea Lion—See Chicago-Allis Mfg Corp Steerbax—See Whiting Leather & Belting

Co.
Sterling—See Chicago-Allis Mfg Corp
Stronghold—See J E Rhoads & Sons J
Tannate—See Rhoads & Sons J E
Vim Tred—See Houghton & Co E F
Wabeco—See Warren Belting Co
Warren Belting Co 33 Arctic St Worcester
8 Mass "Warren" "Wabeco"
8 Mass "Warren" "Wabeco"
9 Murray
St New York N Y "Steerbax" "Du-O-tan" "Bedrock" "Hardwear" "Endural"
Wizard—See American Leather Belting Co

BELTING, Rubber (Industrial) Aiax-See Hewitt-Robins Inc.

Ajax—See Hewitt-Robins Inc
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Buffalo Weaving & Belting Co., 260 Chandler
St., Buffalo 7, N. Y.
Cincinnati Rubber Mfg. Co., Franklin Ave.,
Norwood, Cincinnati 12, Ohio. "Pace
maker," "Flexicord," "Fidelity."
Condor—See Raybestos-Manhattan Inc Man
hattan Rubber Div
Conservo—See Hewitt-Robins Inc
Dayton Rubber Co 2342 Riverview Ave Dayton Ohio "Thorobred"
Dodge Mfg Corp 560 Main St Mishawaka Ind
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Fidelity—See Cincinnati Rubber Mfg. Co
Flexicord—See Cincinnati Rubber Mfg. Co
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St
Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Hewilte" "Maltese
Cross" "Monarch" "Conservo"
Hewilte—See Hewitt-Robins Inc
Manhattan—See Raybestos-Manhattan Inc
Manhattan—See Hewitt-Robins Inc
Manhattan—See Hewitt-Robins Inc
Pacemaker—See Cincinnati Rubber Mfg. Co.
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc Manhattan Rubber
Div 61 Willet St Passalc N J "Condor"
"Manhattan"
Stevens Co., A. T., 118 E. 28th St., New
York 16 N. Anchor Packing Co., 401 N. Broad St., Phila-"Manhattan"

Stevens Co., A. T., 118 E. 28th St., New York 16, N. Y

Thermoid Co Whitehead Rd Trenton N J
Thorobred—See Dayton Rubber Co.
United States Rubber Co., Rockefeller Center, 1236 Ave. of the Americas, New York
20, N. Y.

BELTING, V-Belt (Industrial)

Wood's Sons Co T B Chambersburg Pa "Wood's Sure-Grip"

BELTS, Auto (Fan, Water Pump,

Generator, etc.) Amco—See Asbestos Mfg. Co. Asbestos Mfg. Co., E. Sabine St., Hunting-ton, Ind. "Amco." Crown Products Co 5277 S 77th St Raiston Dallas Mfg & Sales Co P O Box 7181 Dallas Tex Neb
Dallas Mfg & Sales Co P O Box 7181 Dallas
Tex
Dayton Rubber Co 2342 Riverview Ave Day
ton Ohio
Diamond Rubber Co Div of B F Goodrich Co
500 S Main St Akron 18 Ohio
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio
Gates Rubber Co 999 S Broadway Denver
17 Colo "Gates Vulco"
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co 1144 E Market
St Akron 16 Ohio
Gripper-See Rawhide Products Co
Haywood Industries P O Box 1004 Dayton 1
Ohio "Modac" (Fan)
Hy-Power-See Lion Auto Parts & Mfg Co
Lion Auto Parts & Mfg Co, 1920 S Michigan
Ave Chicago 16 Ill "Hy-Power"
Loreman Products Moore & Division Sts
Salisbury Md
Miller Rubber Co, Div. of B. F. Goodrich Co.,
500 S. Main St., Akron, Ohio.
Miracle—See Rawhide Products Co.
Miracle—See Rawhode Products Co.
Modac—See Haywood Industries
R/M—See Raybestos-Manhattan Inc
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper" "Miracle"
Raybestos-Manhattan Inc
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper" "Miracle"
Raybestos-Manhattan Inc
Rawhide Products Lo Miracle Products Com "R/M"
Raybestos-Manhattan Inc
Rawhide Products Com "R/M"
Ridbo Laboratories Inc 211 E Harrison St
Danville III (Fan)
Thermoid Co Whitehead Rd Trenton 6 N J

United States Rubber Co Rockefeller Cen-ter 1230 Ave of the Americas New York 20 N Y

BELTS, Safety (Auto and Truck)

BELTS, Safety (Auto and Truck)
Aero-Car—See Russell Mig Co
Alofs Mig Co 345 32nd St S W Grand Rapids
8 Mich "Lyfe"
Auto-Crat Mig Co a Div of B-N Corp 1849
Blake Ave Los Angeles 39 Calif
Brown Automotive Ray 5656 Santa Monica
Blvd Los Angeles 33 Calif "Impact"
Buckles Co Harry 303 Greer St Sikeston Mo
Bullard Co E D 2680 Bridge Way Sausalito
Calif "Bullard Retracto"
Bunke-Musser Inc Box 386 Jackson Center
Ohio "Sure-Grip"
Carter Co George R 630 Lycaste Ave Detroit 14 Mich (Auto)
Fabric Mig Co 97 Chestnut St Newark 5 N J
Guardsman—See Narrow Fabric Co
Hastings Mig Co N Hanover St Hastings
Mich

Hickok Mfg Co 850 St Paul St Rochester 1 N Y

Hickok Mfg Co 850 St Paul St Rochester 1 N Y
Hinson Mfg Co Westfield Ave & Menges St Waterloo Iowa
Impact—See Ray Brown Automotive
International Mfg Co 2512 Washington St Roxbury 19 Mass "Rayline"
Irving Air Chute Co 1315 Versailles Rd Lexington Ky "Irvin"
Karbelts—See Sparton Automotive Div Lyfe—See Alofs Mfg Co
Modern Accessories Co 1526 Scott Bivd Covington Ky
Narrow Fabric Co Reading Pa "Guardsman"
Rayline—See International Mfg Co
Rose Mfg Co 2700 W Barberry Pl Denver 4
Colo "Safe-Hi" (Auto)
Rupert Parachute Co Wheeling Ill (Auto)
Russell Mfg Co E Main St Middletown Conn "Aero-Car"
Safe-Hi—See Rose Mfg Co
Schlegel Mfg Co 1555 Jefferson Rd Rochester
23 N Y
Southern Weaving Co 4 Evans St Greenville

Southern Weaving Co 4 Evans St Greenville S C Sharton Automotive Div of Sparton Corp Jackson Mich "Karbelts" Stebeo Mfg Co 1401 W Jackson Blvd Chicago 7 III "Sav-A-Life" Sturges Mfg Co 2030 Sunset Ave Utica 4

N Y
Switch Parachute Co 1325 E State St Trenton N J
Thomas Co R M 2019 E Willard St Muncle Ind

BELTS or BANDS, Endless Abrasive (Industrial)

(Industrial)

Adalox—See Behr-Manning Corp.
Armour & Co Cushioning Products Div & Coated Abrasives Div N Benton Rd Alliance Ohio
Behr-Manning Corp 4457 Howe St Troy N Y Yadalox "Durite" "Metalite" "Resinall" "Speed-Wet" "Spiraband" "Spirabelt" "Cunifiow" "Speed-Wet" "Spiraband" "Spirabelt" "Cunifiow" "Speed-Wet" "Spiraband" "Spirabelt" "Civer Mg Co 327 Main St Norwalk Conn "Smooth-Run" Corp Simooth-Run" DoAll Co 254 N Laurel Ave Des Plaines III Durite—See Behr-Manning Corp Pield Abrasive Mg Co 1303 Stanley Ave Dayton 4 Ohio "TruCut" (Bands) Metalite—See Behr-Manning Corp Smooth-Run—See Clover Mf Co Speed-Wet Durite—See Behr-Manning Corp Spiraband—See Behr-Manning Corp Spiraband—See Behr-Manning Corp Spiraband—See Behr-Manning Corp Spiraband—See Behr-Manning Corp Stevens Co A T 113 E 29th St New York 16 N Y "TruCut—See Field Abrasive Mfg Co Uniflow—See Behr-Manning Corp Stevens Co Seen Centers, Bench "Seen Centers, Bench" Seen Co County Mich Condation stiffeners with means provided for fastening foundations to doors) Randall Co 5000 Spring Grove Ave Cincing Contact Conta

BENCH CENTERS-See Centers, Bench

ENCHES. ENGINE and ELECTRICAL TEST—See Analyzers, Engine and Electrical Equipment; also Stands, Electric Test BENCHES.

BENCHES, WORK (PORTABL Stands, Portable Tool & Parts (PORTABLE) - See

BENDER-CUTTER MACHINES - See Ma-chines, Bender-Cutter (Compressed Air or Hand)

BENDERS, Angle (Hand)

Chicago—See Gustave Lidseen, Inc. Di-Acro—See O'Nell-Inwin Mfg. Co. Lewthwaite Machine Co T H 324 E 47th St New York 17 N Y

Lidseen, Inc., Gustave, 332 S. Central Ave., Chicago, Ill. "Chicago." O'Neil-Irwin Mfg. Co., Lake City, Minn. "In Acro. ... aul Machine Tool & Die Works 4600 S Ked-zie Ave Chicago 32 Ill 'hitney Metal Tool Co 190 Forbes St Rock-ford Ill

BENDERS, Tube

Chicago - See Gustave Lidseen Inc
Di-Arco - See G'Nell-Irwin Mig. Co.
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, Ill.
Gdeimann & Co., E., 2332 Logan Bivd., Chicago 47, Ill. "Erco."
"Irco - See E. Edeimann & Co.
Excello Accessories Mfrs Inc 81 Madison Ave
Hempstead N Y
Farrell-Cheek Steel Co Ft Madison St Sandnsky

Farrell-Cheek Steel Co Ft Magison St. dusky O Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill Leonard Precision Products Co 9200 Bolsa Ave Santa Ana Calif "Leonard-Douglas" Lidseen Inc Gustave Hayesville N C "Chicago" (Portable machine) OTC—See Owatonna Tool Co O'Neill-Irwin Mfg. Co. Lake City, Minn. "Di-Arco." Tool Co 342 N Cedar St Owatonna

Owatonna Tool Co 312 N Cedar St Owatonna Minn "OTC"

Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12

Ohio
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 III
Pines Engrg Co 601 Walnut St Aurora III
Weatherhead Co Fort Wayne Div 128 W
Washington Blyd Ft Wayne Ind
Williams White & Co 3rd Av & 8th St Moline III

BENDING MACHINES-See Machines, Bend-

BENDING PRESSES-See Presses. Bending

BENDINGS, Tubular

BENDINGS, Tubular

American Tube Bending Co., 15 Lawrence St., New Haven 8, Conn.

Bath Co Cyril 32239 Aurora Rd Solon Ohlo Detroit Tube Products Co., 304 S. Junction Ave., Detroit 9, Mich.

Mueller Brass Co., 1925 Lapeer Ave., Fort Huron, Mich.

Paul Machine Tool & Die Works 4607 S Kedzie Ave Chicago 32 Ill

Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.

Tube Manifold Corp 415 Bryant St North Tonawanda N Y Yoder Co., 5510 Walworth Ave., Cleveland 2, Ohio.

Campbell & Dann Mfg Co Tullahoma Tenn (Solid) Lebzelter & Son Co Philip 241 N Queen St Lancaster Pa BEVELING MACHINES, GLASS—See Ma-chines, Glass Beveling and Grinding

Chace Co., W. M., 1600 Beard Ave., Detroit, Mich. Mich. eneral Plate Div of Metals & Controls Copp 54 Forest St Attleboro Mass "Truflex"
Morflex—See H. A. Wilson Co
Truflex—See General Plate Div
Wilco—See H. A. Wilson Co.
Wilson Co H A 2655 U S Route 22 Union
N J "Wilco" "Morflex"

Randall Co 5000 Spring Grove Ave Cincin-nati Ohio

BINDINGS, Upholstery

Rackstay Welt Co., Oak & Howard Sts., Union City, Ind. "Hidem." Bridgeport Fabrics Inc 165 Holland Ave Bridgeport 9 Conn Brockton Stay Co., 24 Essex St., Haverhill, Mass. "Stayco." Carrer Co., George R., 630 Lycaste Ave., De-Carter Co., George R., 630 Lycaste Ave., De-troit, Mich.

Fox Edge Co 1995 Middlesex St Lowell Mass

"Fox" "Foxtissue" "Foxkraft" "Foxfax"

(Welting cord: "Foxtape" seat cover)

Hidem—See Backstay Welt Co; Union Welt

Corp; Supreme Mfg Co

BINDINGS, Upholstery-continued

Hope Webbing Co P O Box 1495 Providence 1 R I Kerr Specialty Co 1741 Bellevue Ave De-troit 7 Mich National Plastic Products Co Odenton Md "Wynene"

Stayco—See Brockton Stay Co.
Supreme Mfg Co 637 Broadway N Y 12 N Y
"Hidem Welt"

"Hidem Welt"
Uniform Hood Lace Co 633 E St Clair St
Indianapolis 2 Ind
Union Welt Corp 1316 S Pulaski Rd Chicago 23 Ill "Hidem" "Wire-On"
Vogt Mig Co 100 Fernwood Ave Rochester
21 N Y

21 N Y Wire-On—See Union Welt Corp Wynene—See National Plastic Products Co

BINS, Parts Storage

Add-A-Bin-See Dorman Products Inc Akro-Mils Inc 820E Market St Akron 5 Ohio
"E-Z Find Full-Vue" "Handy" "Haz-Bin"
"Jiffy" & "Swing-Bin" "Jiffy" & "Swing-Bin"
American Metal Products Co 5959 Linsdale

American Metal Products Co 8707 Linsuare Ave Detroit 4 Mich Bathey Mfg Co 100 S Mill St Plymouth Mich Bay Products Inc 8001 N 16th St Philadel-phia 32 Fa (Steel) Berger Div Republic Steel Corp 1038 Belden Ave N E Canton 5 Ohio "Flexi-Bilt" Bernard Franklin Co Hedley & Bath Sts

Berrard Franklin Co Hedley & Bath Sts Philadelphia 37 Pa Borroughs Mfg Co 3002 N Burdick St Kala-mazoo Mich "Flexi-Bins" & "Handee-Andee"

DeLuxe Metal Furniture Co Struthers St Warren Pa

Warren Pa
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio "Add-A-Bin"
E-Z Find Full-Vue—See Akro-Mils Inc
Equipto Div Aurora Equipment Co Prairie
St at Cleveland Ave Aurora III
F G M Quick Bilt—See Frick-Gallagher Mfg
Mfg Co
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Flexi-Bilt—See Berger Div Republic Steel
Corp

Flexi-Bilt—See Berger Div Republic Steel
Corp
Flexi-Bins—See Berroughs Mfg Co
Fort Steuben Metal Products Co Follansbee
W Va
Frick-Gallagher Mfg Co 200 W Second St
Wellston Ohio "F G M Quick Bilt" (Steel)
Frontier Mfg Co 11200 Harry Hines Bldg
Dallas Tex
Handee-Andee—See Borroughs Mfg Co
Handy—See Akro-Mils Inc
Haz-Bin—See Akro-Mils Inc
Heller & Co., W. C., 1907 Wabash Ave., Montpeller, Ohio.
Hope Metal Products Co 1688 Arabella Rd
Cleveland 12 Ohio
Jiffy—See Akro-Mils Inc
Lyon Metal Products, Inc., 2931 Montgomery
St. Aurora, Ill.
Midland Mfg Inc 1100 S McComas St Wichita
12 Kans (Steel)
Miller Wood Products Co Greater Rockford
Airport Rockford Ill
Neiman Steel Equipment Co 2960 E Venango
St Philadelphia 14 Fa
Rempco—See Renie Metal Products Corp
Renie Metal Products Corp P O Box 244
Mansfield Ohio "Rempco"
Space Saving Equipment Co 160-18 27th Ave
Flushing 58 NY (Steel)

Mansfield Ohio "Rempco"

Space Saving Equipment Co 160-18 27th Ave
Flushing 58 N Y (Steel)

Supreme Steel Equipment Co 53rd St & First
Ave Brooklyn 32 N Y

Swing-Bln—See Akro-Mils Inc
Turner System—See Factory Service Co
Union Metal Mfg Co 1432 Maple Ave N E
Canton 5 Ohio

BITS, Screwdriving

Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio Continental Screw Co 100 Mt Pleasant St New Bedford Mass "Hy-Pro"

BLADES, Aircraft

Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich

BLADES, Metal Slitting and Screw Slotting

Slotting
Century—See Hill Acme Co
Circle R—See Circular Tool Co
Circular Tool Co., 765 Allens Ave., Providence, R. I. "Circle R."
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio.
Heppenstall Co., 4620 Hatfield St., Pittsburgh 1, Pa. "Kleenkut."
Hill Acme Co Cleveland Knife Div 1201 W
45th St Cleveland 2 Ohio "Peerless" "Century" & "Standard" (Metal slitting)
Hy-Pro Tool Co 461 Mt Pleasant St New
Bedford Mass (Screw slotting)

Kleenkut—See Heppenstall Co. Martindale Electric Co 1340 Hird Ave Cleve-land 7 Ohio (Screw slotting) Peerless—See Hill Acme Co Cleveland Knife

Div
Pratt & Whitney, Div. Niles-Bement-Pond
Co., Charter Oak Blvd., West Hartford,
Conn.
Relitool Corp 4500 W Burnham St Milwaukee 46 Wis Simonds Saw & Steel Co 470 Main St Fitch-burg Mass Standard—See Hill Acme Co

BLADES, Saw (Band)

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass. "Lenox." Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 9 Ind "Silver Steel" Capewell Mfg. Co., 60 Governor St., Hartford 2 Conn Chicago Saws Inc 6137 S Oak Park St Chi-cago 9 Ill

Diamond Saw Works Inc Chaffee N Y "Ster-ling" & "Super Sterling"

ling" & "Super Sterling"
Disston Div H K Porter Co Unruh & Milnor
Sts Tacony Philadelphia 35 Pa
DoAll Co., z64 N. Laurei Ave., Des Plaines,

Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y. Griffin Co G W 33 Memorial St Franklin N H

Griffin Co G W 93 Memorial St Franklin N H
(Sole distributors, John H Graham & Co
105 Duane St New York 8 N. Y.)
Heller Tool Co Heller Dr Newcomerstown
Ohio "Nucut"
Lenox—See American Saw & Mfg. Co.
Lippert Saw Co., E. T., 608 Lincoln Ave.
(Millvale), Pittsburgh 9, Pa.
Millers Falls Co Greenfield Mass
Napler Saw Works 22 Cottage St Middletown
N Y "Quality"
Nucut—See Heller Tool Co
Quality—See Napler Saw Works
Silver Steel—See Atkins Saw Div BorgWarner Corp
Simonds Saw & Steel Co., 470 Main St.,
Fitchburg, Mass.

Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass. Spartan Saw Works Inc 152 Fisk Ave Springfield 7 Mass Starrett Co L S 1-165 Crescent St Athol

Starre

Sterning—See Diamond Saw Works, Inc.
Super Sterling—See Diamond Saw Works Inc
Victor Saw Works, IZ Cottage St., Middletown, N. Y.

BLADES, Saw (Circular)

Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 9 Ind "Silver Steel" Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md Chicago Saw Inc 6127 S Oak Park St Chi-cago 9 Ill

cago 9 III Circie R.—See Circular Tool Co. Circular Tool Co., 765 Allens Ave., Provi-dence, R. L. "Circle R." Cownes Tool Co., 2006 W. 110th St., Clevedence, R. L. "Circle R."
Cowies Tool Co., 2036 W. 110th St., Cleveland thio
Disston Div H K Porter Co Unruh & Milnor
Sts Tacony Philadelphia 35 Pa
Ideal Industries Inc 1014 Park Ave Sycamore II (Commutator)
Lippert Saw Co E T 608 Lincoln Ave (Millvale) Pittsburgh 9 Pa
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Mica undercutting)
Meyers Co W F 1017 14th St Bedford Ind
"Meyco"

otch & Merryweather Machinery Co 715 Penton Bldg Cleveland 12 Ohio "Triple Chip" Motch

Chip"
Page Slotting Saw Co 1836 Lawrence Ave
Toledo 6 Ohio "Pay-edge" (Commutator)
Pay-edge—See Page Slotting Saw Co.
Stellool Corp 4540 W Burnham St Milwaukee
46 Wis

46 Wis Arms Co 939 Barnum Ave Bridgeport 2 Conn Silver Steel—See B C Atkins & Co Silver Steel—See B C Atkins & Co Simonds Saw & Steel Co., 470 Main St Fitchburg, Mass. "Simonds Red Streak." Standard Tool Co 3550 Chester Ave Cleveland 14 Ohio Triple Chip—See Motch & Merryweather Mchy Co Willey's Carbide Tool Co., 1240 W. Vernor Highway, Detroit 1, Mich.

BLADES, Saw (Hack)

A A A -See Atkins Saw Div Borg-Warner

Corp
American Saw & Mfg. Co., 67 Roylston St
Springfield, Mase "Lenox"
Atkins Saw Div Borg-Warner Corp 402 S
Illinois St Indianapolis 9 Ind "A A A"
"Silver Steel"
Blackhawk-See New Britain Machine Co
Blue Point—See Snap-On Tools Corp.

Blu-Flex-See Millers Falls Co

Blu-Flex—See Millers Falls Co
Blu-Moi—See Millers Falls Co
Capewell Mig Co ou Governor St Hartford
2 Conn "Capewell" "Dafile" "Flex-tung"
"Hard-tung" "Safetech" "Technite"
Clemson Bros., 22 Cottage St., Middletown
N. Y. "Star."
Dafile—See Capewell Mig Co
Diamond Saw Works Inc Chaffee N Y "Sterling" & "Super Sterling"
Disston Div H K Porter Co Unruh & Milnor
Sts Tacony Philadelphia 35 Pa
DuAll Co 201 A Laurel Ave Des Plaines III
Dreier Bros Inc 7301 Woodlawn Ave Chicago 19 III
Duro Metal Products Co., 2649 N. Kildare

2649 N. Kildare

cago 19 III
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, III. "Duro-Chrome."
Flex-tung—See Capewell Mfg Co
Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn. "Whale."
Griffin Co., G. W., 33 Memorial St., FrankIln. N. H. (80le distributors, John H
Graham & Co., 105 Duane St., New York 8
N. V. 1

N. I.)
Hard-tung—See Capewell Mfg Co
Heller Tool Co Heller Dr Newcomerstown
Ohio "Nucut"

Jet Edge—See Millers Falls Co K-D Mfg. Co., 526 N. Plum St., Lancaster,

Pa. v-Hak Key-Hak I Inc 1321 "PAD" Div Producers and 21 Hanover Ave A Distributors Allentown

Inc 1321 Hanover Ave Allentown Pa
Lenox—See American Saw & Mig. C.
Mifford—See Henry G. Tunenson f. Sam Co.
Miffers Falls Co. Greenfield Mass "Blu-Flex"
"Millers Falls C. Greenfield Mass "Blu-Flex"
"Net Edge" & "Tuf-Flex"
"Napier Saw Works 22 Cottage St Middletown N Y "Quality"
New Britain Machine Co. Hand Tools Div.
South St. New Britain Conn "Blackhawk"
"New Britain"
Nucut—See Heller Tool Co.
PAD—See Key-Hak Div Producers and Distributors Inc.
Red Edge—See Simonds Saw & Steel Co.
Quality—See Napier Saw Works
Safetech—See Capewell Mig Co.
Silver Steel — See Atkins Saw Div Borg.
Warner Corp.
Simonds Saw & Steel Co. 470 Main St Fitchburg Mass "Red End" & "Weld-Edge"
Snap-On Tools Corp. 8046 28th Ave Kenosha Wis "Blue Point"
Spartan Saw Works, Inc., 152 Fisk Ave.,
Springfeld 7, Mass.
Star-See Clemson Bros
Starrett Co. L. S., 1 Crescent St., Athol.

Star—See Clemson Bros Starrett Co., L. S., 1 Crescent St., Athol. Mass. (Power and hand.) Sterling—See Diamond Saw Works, Inc. Super Sterling—See Diamond Saw Works.

Inc.
Technite—See Capewell Mfg Co
Thompson & Son Co., Henry G., 277 Chapel,
St., New Haven S. Conn., "Milford."
Tuf-Flex-See Millers Falls Co
Universal—See Millers Falls Co
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

town, N. Y. Weld-Edge—See Simonds Saw & Steel Co Whale—See Forsberg Mfg. Co.

BLADES, Saw (Hot)

Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.

BLADES, Saw (Inserted Tooth)

Disston Div H K Porter Co Unruh & Milnor Sts Tacony Philadelphia 35 Pa Linnert Saw Co., E. T., 808 Lincoln Ave. Limet Saw Co., E. T., 808 Lincoln Ave. (Millvale), Pittsburgh 9, Pa. Simonds Saw & Steel Co 470 Main St Fitch-burg Mass

BLAST CLEANING APPARATUS

Liquamatte—See Wheelabrator Corp
Liqui-Breez—See Tobin-Arp Mig Co
Macleod Co Box 452 Sharonville Ohio
Pangborn Corp., 200 Pangborn Blvd.,
Hagerstown, Md.
Ruemelin Mig. Co., 3860 N. Palmer St., Milwaukee, Wis.
Sly Mig. Co., W. W., 4706 Train Ave., Cleveland, Ohio. "Slyblast."
Tobin-Arp Mig Co 6400 Penn Ave S Minneapolis 23 Minn "Liqui-Breez"
Vapor Blast Mig Co 3025 W Atkinson Ave
Milwaukee 9 Wis
Wheelabrator Corp 402 Byrkit St Mishawaka Ind "Liquamatte" & "Wheelabrator"

BLOCKS, Brake-See Lining, Brake

BLOCKS, Cylinder

Campbell, Wyant & Cannon Foundry Co-Muskegon Mich

BLOCKS, Gage

Brown & Sharpe Mfg. Co., 235 Promenade St., Providence 1, R. I. "Johansson." Providence I, R. I. "Johansson." DoAH Co., 254 N. Laurel Ave., Des Plaines

Hoke-See Pratt & Whitney Co

Hoke—See Fratt & Whitney Co Johansson—See Brown & Snarpe Mig. Co. Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Hoke" Scherr Co., George, Zou Lafayette St., New York 12. N. Y. "Ultra Chex." Sheffield Corp 721 Springfield St Dayton 1

Ohio
Swedish Gage Co of America 10641 Haggerty
Ave Dearborn 1 Mich
Taft-Peirce Mfg. Co., 33 Mechanic Ave.
Woonsocket, R. I.
Ultra Chex—See George Scherr Co.
Van Keuren Co., 176 Waltham St., Watertown. Mass.

town, Mass.
Webber Gage Co., 12900 Triskett Rd., Cleve-land 11, Ohio.

BLOCKS, Hickory Aisle

Anderson-Tully Co 1242 N Second St Mem-phis Tenn

BLOCKS or HOISTS, Chain

(See also Cranes, Portable; also Hoists)

Auto-Blue-See David Round & Son. Blue-Boy-See Chisholm-Moore Hoist Div Budgit—See Manning Maxwell & Moore Inc Challenger—See Coffing Hoist Div Duff-Challenger-

Norton Co
Chester Hoist Div of National Screw & Mfg
Co Lisbon Ohio "Chester"
Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda
N Y "Cyclone" "Blue-boy"
Cleveland Crane & Engineering Co., 5866 E.
283rd St., Wickliffe, Ohio. "Cleveland
Trangali"

Cieveland Crane & Engineering Co., some Engager St., Wickliffe, Ohio. "Cleveland Trainrali"
Coffing Holst Div Duff-Norton Co 800 Walter St Danville Ill "Challenger" "Mighty Midget" "Safety Pull" "Super Power"
Cyclone—See Chishelm-Moore Heist Div Ford Chain Block Div. of American Chief Marrington Co Gravers Rd at Turnpike Plymouth Meeting Pa "Packet" "Peerless"
Lite-Bloc—See Ford Chain Block Div Little Wizard—See David Round & Son.
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich "Budgit"
Mighty Midget—See Coffing Hoist Div Duff-Norton Co
Ohio Hoist Mfg Co 221 S Beaver St Lisbon Ohio
Packet—See Harrington Co
Peerless—See Harrington Co.
R & M—See Robbins & Myers, Inc.
Reading Pa

Reading Crane & Hoist Corp 2140 Adams St Reading Pa Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M." Round & Son David Box 883 Cleveland 22 Ohio "Auto-Bloe" "Weston" "Superior" "Little Wizard"

Pull-See Coffing Hoist Div Duff-

"Little Willard Safety Pull—See Coffing Hoist Div Duff-Norton Co Simplex—See Speidel Elevator Corp. Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa. "Simplex." Super Power—See Coffing Hoist Div Duff-Norton

Norton Co
Superior—See David Round & Son
Weston—See David Round & Son
Wright Hoist Div of American Chain &
Cable Co York Pa
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Bivd Philadelphia 15 Pa

BLOCKS, JUNCTION—See Panels, Instrument (With Instruments Assembled)

BLOCKS, V

Challenge Machinery Co First & Columbus St Grand Haven Mich Machine Products Corp 6771 E McNichols Rd Detroit 11 Mich Precision Tool & Mfg Co of Illinois 1305 S Laramie Ave Cicero 50 Ill "Uni-V-Blocks" Starrett Co L S 1-165 Crescent St Athol Mass

Mass
Swanson Tool & Machine Products Inc 814
E Eighth St Erie Pa
Taft-Peirce Mfg Co 32 Mechanic St Woonsocket R I
Uni-V-Blocks—See Precision Tool & Mfg Co

of Illinois

BLOW GUNS-See Nozzles, Air

BLOW PIPES, Brazing, Welding and Cutting

American Gas Furnace Co., Lafayette, Spring & Elizabeth Sts., Elizabeth, N. J. (Braz-

& Elizabeta com, ing.)
Dixon Inc William 32 E Kinney St Newark 1 N J (Brazing)
Linde Co 30 E 42nd St New York 17 N Y "Oxweld" "Purox" (Oxy-acetylene) Oxweld—See Linde Co Purox—See Linde Co

19 W. Third St. (South Tolman Mfg. Co., 19 W. T Boston), Boston 27, Mass.

BLOWERS, Heat (Electric)

(For thawing gas or oil lines, melting grease, etc.)
Axivane—See Joy Mfg Co
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22
Pa "Axivane"
Mack Products Co., 15 Putnam St., Winthrop, Mass.

BLOWERS, Heater (Auto)

Chicago Mfg Co 411 N Trumbull Ave Chi-

BLOWERS, Pressure

ABC-See American Blower Corp.
Ams-Channers Mg. Co., Milwaukee I, Wis.
American Bower Corp., Detroit 3., Mich.
"ABC."

"ABC."
Axivane—See Joy Mfg Co
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
Clarage Fan Co., North & Forter Sts., Kalamazos, Mich.
Eclipse Fuel Engineering Co 1111 Buchanan

Rockford III

ruttage Div. of Lindberg Engineerin "Lindberg-Fisher."

Ideal Industries, Inc., 1014 Park Ave., Sycamore, III.

Alts. Co., 2825 E. Hennepin Ave.,

Jonnston Mig. Co., 2825 E. Hennepin Ave.,

Miniteapoits, Minn.

Miniteapoits, Minn.

Miniteapoits, Minn.

Pa "Axivane"

Leiman Bros., Inc., 207 Christie St., Newark

b, N. J.

Lindberg-Fisher-See Fisher Furnace Div. of

Lindberg-Fisher—See Fisher Furnace Div. of
Lindberg-Einderering Co.
Mahr Mfg Co 7444 Girard Ave S Minneapolis
23 Minn
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Portable electric)
Miehle-Dexter Supercharger Div of Christensen Machine Co 100 4th St Racine Wis
North American Mfg. Co., 4455 E. 71st St.,
Cleveland 5, Ohio.
Ploneer Air Compressor Co., 120 Chambers
St., New York 7, N. Y.
Schwitzer Corp 1125 Massachusetts Ave Indinapolis 7 Ind
Skil Corp 5033 Elston Ave Chicago 20 III
"Skil Blowers"
Spencer Turbine Co., 486 New Park Ave.

"Skil Blowers"
pencer Turbine Co., 486 New Park Ave.
Hartford 6, Conn.
tandard Electric Mfg Co Haddon Ave West
Berlin N J
'estinghouse Electric Corp., Sturtevant Div.
15 Damon St., Hyde Park, Boston 36, Mass

BLUE, Mechanics'

(For use when adjusting bearings) Durkee-Atwood Co 215 Seventh St N E Min-neapolis 13 Minn Dykem Co 2301 N 11th St St Louis 6 Mo Permatex Co 300 Broadway Huntington Sta-tion N T

BLUING FURNACES—See Furnaces Rust-proofing

BOARDS, Instrument

(See also Panels, Instrument) Bristol Co Waterbury 20 Conn Hamlin Metal Products Co 2741 Wingate Ave Akron 19 Ohio

BODIES, Ambulance, Hearse & Funeral

Boyertown Auto Body Works Inc Third & Walnut Sts Boyertown Pa (Ambulance)
Eureka Co., 312 W. First St., Rock Falls,
Ill. (Hearse and ambulance, for Cadillac

chassia.)
Franklin Body & Equipment Corp 1042 Dean St Brooklyn N Y (Ambulance)
Hesse & Eisenhardt Co 3958 Bisu Ash Ave Cincinnati 42 Ohio "S&S" (For Cadillac

chassis) Miller-Meteor Motor Car Div Miller-Meteor Motor Car Div Divco Wayne Corp Bellefontaine Ohio "M-M" (Ambul-ance and funeral car for Cadillac chassis)

National Body Mfg Co Main St Knightstown ind (Ambulance and funeral car) S&S—See Hesse & Eisenhardt Co Shop of Siebert Associates Inc W Ohlo Waterville

BODIES, Bus

Belmont Body Builders 175 Belmont Ave Newark 3 N J Black & Sons Inc Adam 276 Tonnele Ave Jersey City 6 N J

Black & Sons Inc Adam 276 Tonnele Ave Jersey City 6 N J
Blue Bird Body Co., Fort Valley, Ga. (Passenger and school.)
Bolick Sons Co., Jerome, Conover, N. C. Carpenter Body Works, Inc., Mitchell, Ind. Checker Motors Corp 2016 N Pitcher St. Kalamazoo Mich Excel Body Corp Eaker Field Durant Okla. (School and passenger)
Franklin Body & Equipment Corp 1042 Dean St. Brooklyn N Y
Hackney Bros. Body Co., Goldsboro St., Wilson, N. C.
National Body Mfg Co Main St Knightstown Ind (Alrport)

National Body Mig Co Main St Kinghesows Ind (Airport)
Novelty Carriage Works Inc 815 Second Ave Spokane 4 Wash
Oneida Products Div Henney Motor Co Canastota N Y (School)
Pacific Car & Foundry Co 4th & Factory Sts-Renton Wash
Quitslund Bodies & Equipment P O Box 396
North Bend Wash
Shop of Siebert Associates Inc Waterville Chilo

Shop o

Ohio
Thomas Car Works, Inc., Perley A., High
Point, N. C.
Thomas & Co., Peter, 1320 Main St., Seattle
22. Wash.
Ward Body Works Inc 805 Harkrider St
Conway Ark (School and passenger)
Wayne Works Div Divco-Wayne Corp 1500
N F St Richmond Ind (School and transit)

BODIES. Commercial

Abco—See Allegheny Body Co ACF Body Corp 4400 Clayton Ave St Louis

10 Mo ALF Body Corp 4400 Clayton Ave St Louis

10 Mo
Allegheny Body Co 1833 N 6th St Philadelphia
22 Pa "Abco" (Refrigerated van rescuesquad armored utility and line construction)

tion) luminum Body Corp 1600 W Washington Blvd Montebello Calif merican Body & Equipment Co 1411 Char-lotte St. Kansas City 6 Mo "American-

Lindsay"
American Body & Equipment Co P O Box 3107 Dallas 21 Tex (Insulated and refrigerated)

erated) American Body & Trailer Inc., P. O. Box 1150. Okiahoma City 1, Okia. American Fire Apparatus Co Golden Ave at Main St Battle Creek Mich (Fire fighting

Main St Battle Cream apparatus)
American Truck & Body Co., Martinsville, Va. "Pack-Haulers."
Andrews Industries Inc, 7901 Alabama Ave St Louis 11 Mo
Ansted Corp 1428 W Henry St Indianapolis

Aristocrat—See Truck Engrg Co
Arkansas Machine Specialty Co., Hope, Ark.
(Bottlers',
Augusta—See Midwest Works Inc
Auto Body Works Pierce Ave & Eighth St
Appleton Wis "Pierce" (Fire fighting
equipment utility refrigerated bottlers etc)
Eadger Body Mfg Co 2719 Cuming St Omaha
Neb. (Combination grain and stock)
Baker Equipment Engrg Co Summit & Norfolk Sts Richmond 11 Va (Also public
utility)
Baker Trailer & Body Co., 700 N. 20th St.,
St. Louis 3, Mo.

utility;
Baker Trailer & Body Co., 1997 A.
St. Louis 3, Mo.
Baltimore Body Corp., 2253 Kirk Ave., Baltimore. Md.
Barkow Co H 153 N Milwaukee St Milwaukee 2 Wis
Barry & Baily Co., 2419 N. 27th St., Phila-

kee 2 Wis
Barry & Bally Co., 2419 N. 27th St., Philadelphia 32, Pa.
Bartiett Trailer Corp 3080 Archer Ave Chicago 8 III
Batavia Body Co 5 W Wilson St Batavia III (Refrigerated ice cream and milk)
Baughman Mfg Co Shipman Rd Jerseyville
III (Bulk cement and feed)
Bean Div John Food Mchry & Chemical Corp.
1305 S Cedar St Lansing 4 Mich (Fire fighting equipment)

1305 S Cedar St Lansing 4 Mich (Fire fighting equipment)
Bedell Trailer Co 1506 S Flores St San Antonio 4 Tex (Aluminum and steel van Insulated refrigerated)
Beigrade Wagon Works 3740 E Thompson St Philadelphia 37 Pa

Belmont Body Builders, 175 Belmont Ave. Newark 3, N. J.

BODIES. Commercial-continued

Biack & Sons inc Adam 276 Tonnele Ave Jersey City 6 N J (Refrigerator)
Boardman Co 1401 S W 11th St Oklahoma City Okla (Special duty)
Body Builders Inc 1445 16th St Huntington 1 W Va (Steel and aluminum bakery creamery ice cream and van to order)
Bolick Sons Co Jerome Conover N C Born & Sons Inc Herman N North Point Rd & Bayview Ave Baltimore 24 Md Boyertown Auto Body Works Inc Third & Walnut Sts Boyertown Pa
Brown Truck & Trailer Mfg Co PO Box 1281 Morris Field Charlotte 1 N C "Packa-Van" (Garbage collection)
Brunswick Body Wks U S Route 1 New

1281 Morris Field Charlotte I N C "Packa-Van" (Garbage collection)
Brunswick Body Wks U S Route 1 New Brunswick N J
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa C & C Trailer & Body Co 8855 San Leandro St Oakland 21 Calif.

Carovan—See Hughes-Keenan Div Cato Trailer Service Co White Horse Rd Greenville S C
Cee Line—See Hughes-Keenan Corp Chain Belt Co 4723 W Greenfield Ave Milwaukee 1 Wis "Rex Moto-Mixer" (Ready mixed concrete)

waukee 1 Wis "Rex Moto-Mixer" (Ready mixed concrete)
Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich Clark Co., B. M., Union, Maine.
Clayson-Lorenz Co 4058 W Chicago Ave Chicago 51 III (Custom built)
Cliffside Body Corp 230 Laird Ave Cliffside Park N J (Steel and aluminum)
Colectomatic—See Hell Co Commercial Body Co By-Pass 291-N Greenville S C
Cook Body Co 2432 Wilkinson Blyd Charlette

Contectomatic Sec. Contect Sec. Commercial Body Co By-Pass 291-N Greenville S C Cook Body Co 2433 Wilkinson Blvd Charlotte S N C (Van platform stake etc). Copco Trailers Div of Copco Steel & Engrg Co 23500 Sherwood Rd Detroit 34 Mich Couse Mig Inc 300 Passaic St Newark 4 N J (Armored)
Crown Body & Coach Corp 2500 E 12th St Los Angeles 21 Calif Crown Steel Products Co 1330 N Main St Orrville Ohio (Utility)
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Daybrook Hydraulic Div Young Spring & Wire Corp Bowling Green Ohio (Garbage and rubbish collection)
Dee Line—See Hushes-Keenan Div De Hart & Son H A Crown Pt Rd Thorofare N. J.

N J DeKalb Commercial Body Co 229 W Garden St DeKalb III (Stake milk delivery van bakery laundry refrigerated etc; also lumber steel and parcel delivery). Delphi Body Works 311 S Washington St Delphi Ind (Public utility) Diehl & Sons Inc 129 Atlantic Ave Richmond Hill 19 N Y Drihan Body Works 1301 S Second St Philadelphic Pa

Hill 19 N. Porlban Body Works 1301 S Second St Philadelphia Pa Dura-bilt Body Co Bldg No 8 National Dock East Eoston 28 Mass Duravan—See Hughes-Keenan Div EZ—See Hughes-Keenan Div EZ—See Hughes-Keenan Div Ezgle—See Utility Tool & Body Co Eight Point Trailer Co 6100 E Washington Elvd Los Angeles 22 Calif (Special) Elder Trailer & Body Inc 4830 Race St Denver 16 Colo Esco—See Earl Sherman & Co Evans Mig Co John 3 Miles South of Hwy 15A Sumter S C Farrell Mig Co 804 E Cass St Joliet III (Public utility) Peigelson Co Alex 509 S Fourth St Beaumont Tex (Stake and platform) Finnessy Body Co 811 W Taney St Philadelphia 30 Pa

Franklin Auto Body & Equipment Corp 1042
Dean St Brooklyn N v
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich (Aluminum and steel)
G & G Mechanical Co., 722 N. Main St., Fort
Worth 6, Tex.

Worth 6, Tex.

Gallon—See Hercules Gallon Products Inc

Gar Wood Industries Inc Wayne Mich "Gar

Wood Load Packer" "Gar Wood Speed

Packer" (Garbage and rubbish collection

unit)
Gee Line—See Hughes-Keenan Div
General Body Mfg. Co., 713 W. Pennway,
Kansas City, Mo. "General," "Hand-DVan." (Plastic.)
Gentry Body & Trailer Co., N. Fourth St.,
Chickasha, Okia
Gerstenslager Co Wooster Ohio (Bankmobile bookmobile display medical and rescue coach)

cue coach)
Giant Mfg Co 12th Ave & S Sixth St Council
Bluffs Iowa (Farm and city stake)
Gichner Iron Works Inc Fred S 1214 24th St
N W Washington 7 D C (Glass industry
soft drink aluminum utility etc)

Giffel Body Mfg Co 845 Lafayette Ave Terre Haute Ind (Refrigerated) Gindy Mfg Co Boot kd & Chestnut St Down-ingtown Fa Gordon Metal Products Co 115 S Michigan St Plymouth Ind "Gordon Fleetline" (Util-

ity service)

ity service)
Grant Body Mfg Corp 5900 E Admiral Pl
Tulsa Okia (Beverage, bottlers, utility, oil
field, platform and stake)
Great Dane Trailers Inc PO Box 1159 Savannah Ga (Aluminum)
Hackney Bros Body Co Goldsboro St Wilson
N C (Refrigerator meat dairy van &
utility)

uthity) ackney & Sons J A 400 Hackney Ave Washington N C (Van and soft-drink bot-Hackney

tiers)
Han-D-Van—See General Body Mfg Co
Harrisburg Truck Body Co Sheely Lane &
PRR Mechanics urg Pa
Hell Co 3000 W Montana St Milwaukee 1
Wis "Colectomatic" (Garbage-refuse)

Hell Co 3000 W Montana St Milwaukee 1 Wis "Colectomatic" (Garbage-refuse) Hercules Galion Products Inc Galion Ohio ("E-Z Pack" Side loading packer type garbage and refuse; "Galion" garbage and refuse collection; "Hercules")

garbage and refuse; "Gailon" garbage and refuse collection; "Hercules"):
Hercules Mfg Co 1 Main St Henderson Ky (Insulated refrigerated platform stake grain cattle and combination)
Hesse Carriage Co 6700 St John St Kansas City 25 Mo
Hews Body Co 87 St John St Portland 4

Me Highway Trailer Co 405 E Fulton St Edger-ton Wis (Public utility)

Hobbs Trailers Div of Fruehauf Trailer Co 609 N Main St Fort Worth 1 Tex liofiman Auto Body Service inc 1480 N Grant Ave Columbus 1 Ohio (Insulated and re-frigerated)

frigerated Holby Body Co E 2010 Washington Ave N Minneapolis Minn Holan Corp. J H., 4100 W 150th St., Cleveland 35, Ohio. (Public utility.) Hooper Body Corp 31st & Warwick Ave Newport News Va "Hooper-Bilt" (Stake

Hubbard Mfg Co Farmland Ind (Service

car)
Hughes-Keenan Div U S Air Conditioning
Corp P O Box 360 Delaware Ohio ("Vanette" Parcel delivery for Ford chassis;
"EZ" milk bakery and general delivery for
Ford chassis; "Dee Line" milk bakery and
general utility for Dodge chassis; "Carovan" parcel delivery for Chevrolet and
GMC chassis; "Cee Line" milk bakery and GMC chassis; "Cee Line" milk bakery; general utility for chevrolet chassis; "Line" milk bakery and general utility GMC chassis; "Duravan" parcel deliv for Dodge chassis)
Hyde Corp 2936 S Freeway Fort Worth ?
"Hyde"; (also "Hydepak" garbage ref.

collection)
Industrial Steel Tank & Body Works Ine
2533 Fourth St Berkeley 19 Calif
Ingersoil Kalamazoo Div Borg-Warner Corp
1810 N Pitcher St Kalamazoo Mich "Load
Lugger" (Detachable containers for loose
bulk material and refuse)
Jannell & Son Body Co Cumberland Hill
Rd Woonsocket R I (Steel and aluminum)
Jefferson Body Co 1711 3 Av S Birmingham

Johnson Welding & Mfg Co Rice Lake Wis Joplin Body & Trailer Inc 730 E 5 St Joplin Mo

Kargo-King—J B E Olson Corp Kennedy Mfg Co 501 N Monroe St Streator Ill (Grain livestock steel platform and

stake)

stake)
Kensington Wagon Works, 2756 Frankford
Ave., Philadelphia 34, Pa.
Kentucky Mfg Co 2601 S Third St Louisville 8 Ky
Ketter Truck Bodies Third & Ellison Ave
Ironton Ohlo "Markette"
Kewanee Mfg Co 1642 Burlington Ave Kewanee Wis

wanee Wis

Keystone Trailer & Equipment Co., 1501

Guinotte Ave., Kansas City 20, Mo.

Keystone Wagon Works Inc C St & Allegheny Ave Philadelphia 34 Pa (Also refrigerated)

frigerated)
Kiley Co James A 15 Linwood St Somerville
Mass (Public utility)
Kingham Trailer Co 15th & Hill Sts Louisville 10 Ky
Klein Body Co 3280 W 25th St Cleveland 9
Ohio (Also public utility)
Knaphelde Mfg Co 440 S 6th St Quincy III
(Grain livestock and stake)
Koch & Son Mfg Co 200 Wilson Acc. N. F.

Koch & Son Mfg. Co., 200 Wilson Ave., N. E., St. Cloud, Minn.

st. Cloud, Minn.
Koerner Sons, Inc., John, 94 Walton St.,
Brooklyn 6, N. Y.
Kurb-Side—See J B E Olson Corp
Lacey & Sons Co W F 59 Mystic Ave Medford 55 Mass

Lagerquist Body Co Second & Keosauqua Sts Des Moines 9 Ia (Refrigerated in-sulated bakery dairy furniture beer etc) Lains Co Zei W Firm South St Sait Lake City 10 Utah

Load Lugger—See Ingersoil Kalamazoo Div Borg-Warner Corp Long Trailer Service Goldsmith & McKoy Sts Greenville S C (Van stake and furniture

delivery)

Me Corp 1615 Wisconsin Ave New Holstein
Wis (Garbage and refuse)
McCabe-Powers Body Co 5900 N Broadway
St Louis 15 Mo 'Service Master' (Service
truck); "Powers"; "Powers - American"
(Public utility)
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 13 Wis (Wreckers)
Marion Body Works Maris Wis (Delivery
bakery ice cream milk etc)
Markette—See ketter time Budges, his

Markette-See ketter inns Bodies, inc Maryland Mfg Co Laurel Md Mayer Body Corp Paulson & Auburn Sts Pittsburgh 6 Pa

Meeka Son, S. J., 622 G St., N. W., Washington 1, D. C. ton 1, D. C.

Mercury Aircraft Inc Hammondsport N Y

Metalco Body Works 1246 S Los Angeles St
Los Angeles Calif

Meyer Body Co 218 Elm St Buffalo 3 N Y

(Refrigerated)

(Refrigerated)
Mickey Body Co W F 105 Perry St High
Point N C (Sliding door beverage)
Midwest Body & Mfg Div Electrographic
Corp S Central St Paris III (Stake farm
and van)
Midwest Works, Inc., W. on Highway 54,
Augusta, Kans. "Augusta."
Miller-Mctoor Motor Car Div Divco-Wayne
Corp Bellefontaine Ohio (Specialized)
Miller Trailers Inc. 333 Sixth Ave W Bradenton Fla (Refrigerated insulated freight van
and stake)

Miller Trailers Inc 333 Sixth Ave W Braden-ton Fla (Refrigerated insulated freight van and stake)
Millington Truck Body Co 8446 N State St Millington Mich (Insulated milk produce meat bakery and beer)
Minneapolis Freeman Mfg Co 5610 W 36th St Minneapolis 16 Minn (Livestock and

grain) Modern Auto Body Builders Co 200 Wal-worth St Brooklyn 5 N Y (Armored and

Modern Auto Boy worth St Brooklyn 5 N Y (Armored and refrigerated)
Moline Body Co 222 52 St Moline III
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 13, La.
Montpeller Mfg Co Montpeller Ohio (Parcel delivery and frequent stop)
Morrison Steel Products Inc 601 Amherst St Buffalo 7 N Y (Utility and service)
Morse Body Mfg. Co., 69 Howard St., Watertown 72, Mass.
Moryswille Body Works Inc S13 S Reading Ave Boyertown Pa (Steel utility; line construction gas bottle electrical meter and municipality)
Murphy Bros. Works, Inc., Herring Ave., Wilson N C (Also refrigerated and insulated)

Murphy Bros. Works, Inc., Herring Ave., Wilson N C (Also refrigerated and insulated)
NE—See National Truck Equip Co Nabors Co., W. C., Mansfield, I.a., National Truck Equipment Co 1611 Crystal Ave Kansas City 3 Mo "NTE" (Power line and contractors')
New Haven Carriage & Auto Works Inc 1105 S E Main St Portland 14 Ore
Niederhu, Carriage Co 3560 Walnut St Denver 5 Colo
Nogues Body Co 1332 S Ogden Drive Los Angeles 19 Calif
Novelty Carriage Works Inc 815 Second Ave

Reles 19 Calif Novelty Carriage Works Inc 815 Second Ave Spokane 4 Wash (Also line utility and ser-

Spokane 4 Wash (Alex Mules)

Spokane 4 Wash (Alex Mules)

Short Sh

Olson & Son, Inc., Chas., 2945 Pillsbury Ave., Minneapolis, Minn.

Minneapolis. Minn.
Omaha Standard 2401 W Broadway Council
Bluffs lowa (Also livestock and grain)
Oneida Products Div Henney Motor Co
Canastota N Y (Steel and aluminum)
Pack Haulers—See American Truck & Body

Co.
Packa-Van—See Brown Truck & Trailer
Mfg Co
Pak Mor Mfg Co Loop 13 & Roosevelt Ave
San Antonio Tex (Garbage)
Parsons Engineering Corp 4590 Reidler Rd
Willoughby Ohio (Public service)
Penn Body Div., Hockensmith Corp., 1946
Penn St., Penn, Pa.
Perfection Steel Body Co S East St Galion
Ohio

Ohio Pierce—See Auto Body Works Pirsch & Sons Co., Peter, 1308 35th St., Ken-osha, Wis. (Fire engine.)

Powers—See McCabe-Powers Body Co Powers - American — See McCabe - Powers Body Co Press Sons Inc Jacob 501 W 32rd St Chicago

16 [1]

16 Ill
Providence Body Co 750 Wellington Ave
Cranston H I (Also van)
Quitslund Bodies & Equipment P O Box 396
North Bend Wash
R B Co Guinotte & Euclid Sts Kansas City
20 Mo (Lumber roll-off)

20 Mo (Lumber roll-off)
Reading Body Works Inc 420 Gregg Ave
Reading Pa (Utility line and line construction)
Reliance Trailer & Truck Co., 2765 16th St.,
San Francisco 3, Cal.
Remke Inc 28100 Groesbeck Hwy Roseville
Mich

Moto-Mixer-See Chain Belt Co. Rex Roadway Mounting & Equipment Co 21177 Mound Rd (P O Box 164) Van Dyke Mich

Mound Rd (P O Box 184) van Dyke slich (Stake) Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39 Mass (Refrigerated and In-sulated) Rock Hill Body Co., W. Main St., Rock Hill, S. C.

S. C.
Sabco-See Standard Auto Body Co
Santeler Bros \$50 E Main St Columbus 5
Ohlo (Refrigerated, van, stake, etc)
Scammell & Sons S 116 Quincy Ave Quincy 69

Mass
Schayer & Badinger Inc 2841 Tchoupitoulas
St New Orleans 15 La (Bottlers' deck and
closed panel)
Schmitt & Son, Inc., John V., 314 14th St.,
S. E., Washington 3, D. C.
Schnabel Co S luth & Muriel Sts Pittsburgh
3 Pa (Refrigerated or insulated)
Service Master—See McCabe-Powers Body

Sharpsville Steel Fabricators Inc Sharpsville Pa (Fire apparatus, rescue, emergency

Pa (Fire apparatus, rescue, emergency and squad truck) Sherman & Co Earl 2526 Wood St Oakland 7 Cal "Esco" (Eakery refrigerated and

7 Cal "Esco" (Bakery refrigerated fire truck)
Silver Body Works. Inc., 78 Ingraham St.,
Brooklyn 37, N. Y.
Soffe & Son Morris 170 W Berks St Phliadelphia 22 Pa (Also refrigerated)
Stahl Metal Products Inc 3490 W 140th St.
Cleveland 11 Ohio (Utility)
Standard Auto Body Co 4900 S Soto St Los Angeles 58 Calif "Sabco"
Steffen Body Co., O. F., 613 W. Seventh St.,
Sloux City 3, Iowa.
Stewart Steel Products Inc 1785 E New York
Ave Brooklyn 7 N Y (Refrigerated transportation van custom built platform and stake)

Stoughton Cab & Body Co 408 E South St Stoughton Wis (Van, stake and refrig-

erated) trick Trailers Div of Fruehauf Trailer Co 5804 N Broad St Philadelphia 11 Pa unerior Auto Inc 24 Sprague St Dayton 7 Ohio (Also utility)

Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio. (Service car.)
Swab Wagon Co 21 S Callowhill St Elizabethville Pa (Refrigerated and chick vans)
TEC—See Truck Engineering Co.
Theurer Wagon Works, Inc., 601 W. 56th St.,
New York 19, N. Y.

New York 19, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle
22, Wash.
Thompson Trailer Co Old Court Rd Pikesville Md (Public utility package delivery
van; "Thompson Leveloder" elevator type)
Timpte Bros., Inc., E. 40th Ave. & York St.,
Denver 5, Colo.

Towner Mfg Co Box 264 Santa Ana Calif

(Retuse)
Traffic Body Co 5301 N 2nd St St Louis Mo
(Stake and panel)
Traffic Mfg & Sales Co Mill St Hummels
Wharf Pa

Wharf Pa
Transport Products Co 3815 Clark St
Cleveland 9 Ohio (Public utility)
Travelodge Corp 65 N Madison St Tulsa
Okla (Wood and steel)
Triangle Body Works, 2012 Waughton Rd.,
Winston-Salem 6, N. C. (Stake and van.)
Truck Engrg Co 3200 E Pontiac St Fort
Wayne 4 Ind "Aristocrat" (Utility)
Truck Engineering Corp. 1285 W, 70th St.,

Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."

Truck Parts & Equipment Inc 82 E Harry St Wichita Kans (Oil field) Truck Welding & Equipment Co 739 Ninth Ave N Seattle 9 Wash (Steel flat deck)

Ave N Seattle 9 Wash (Steel flat deck)
Union City Bodv Co W Pearl St Union City
Ind (Parcel delivery for GMC, Chevrolet
Ford and Dodge trucks)
Unisteel Body Co Div of Hercules-Galion
Products Inc 605 S Market St Galion
Ohio ("Unisteel" steel van; "Univan" onlo ("Unisteel" steel van; "lauminum van)
Univan—See Unisteel Body Co Div
Univeyor—See Wall Mfg Co

Utility Tool & Body Co 151 E 16th St Clintonville Wis "Eagle" (Public utility line

Utility Tool & Body Co 151 E 18th St Clintonville Wis "Eagle" (Public utility line construction platform etc)
Utility Trailer Mfg Co P O Box F-1, City of Industry Calif
Vanette—See Hughes-Keenan Div Veenema & Wiegers Inc 241 N Tenth St Paterson 2 N J
Wabco—See Williamsen Body Equipment Co. Wadco—See Williamsen Body Equipment Co. Wadco—See Wade & Dunton Inc Wadco—See Wade & Dunton Inc Wadco—See Wade & Conton Inc. 686 Main St., Lewiston, Maine. "Wadco." (Custom built.)
Wall Mfg Co 636 S Stratford Rd Winston Salem N C "Univeyor" (With automatic belt conveyor for coal)
Ward Motor Vehicle Co 718 S Fulton Ave Mt Vernon N Y (Aluminum)
Weber Trailer & Mfg Co 8400 E Slauson Ave Rivera Calif (Mailing address P O Box 2473 Los Angeles 54 Calif)
Weir Body Co 4505 Cuming St Omaha 2

Nebr elch Mfg Co 533 W Jefferson St Phoeweich Mig Co. 333 W Jenerson St Phoe-nix Ariz Weld-Built Body Co. 5393 Preston Court Brooklyn 34 N Y (Wreckers') Wentworth & Irwin Inc. 123 N E. Oregon St Portland 14 Ore

ston Dump Body Co 326 W 11th St Des Ioines 9 Iowa Moines 9 lows Williamsen Body & Equipment Co Ninth & Wall Sts Ogden Utah "Wabco" | Winter-Weiss Co 2001 Blake St Denver 5

Wright Co Thomas 185 Dey St Jersey City 6 N J

6 N J anomas 185 Dey St Jersey City ancey Bros., 110 Jackson St., N. E., Atlanta, Ga. ankee Motor Bodies Corp 122 E. Olympic St Los Angeles 2 Calif (Oil field and ork-Hoover Corp. Dec. 1988).

ork-Hoover Corp Body Div Wheatfield St & M & P RR York Pa (Also public utility)

BODIES, Commercial (Prefabricated)

Aluminum Body Corp 1600 W Washington Blvd Montebello Calif

Blvd Montebello Callf
Black & Sons Inc Adam 276 Tonnele Ave
Jersey City 6 N J
Brown—See Clark Equipment Co Brown
Trailer Div
Brunswick Body Wks U S Route 1 New
Brunswick N J
Clark Equipment Co Brown Trailer Div
Buchanan Mich "Brown" (Aluminum)
De Hart & Son H A Crown Pt Rd Thorofare

Fruehauf Trailer Co., 10940 Harper Ave., De-

Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gichner Iron Works Inc Fred S 1214 24th St
N W Washington 7 D C
Hews Body Co 87 St John St Portland 4 Me
Lindsay Structure Div International Steel
Co 1321 Edgar St Evansville Ind (Truck
and trailer)
Lyncoach & Truck Co 443 Chestnut St
Oneonta N Y (Aluminum)
Mayer Body Corp Paulson & Auburn Sts
Pittsburgh 6 Pa
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa (Sections)
Servall Truck Body Mfg Co 4838 Cermak Rd
Cleero III

BODIES, Dump

Aluminum Body Corp 1600 W Washington, Blvd Montebello Calif Anthony Co Streator III "Anthony Tele-ramic"

Aristocrat-See Truck Engine nerat—See Truck Engineering Co Truck Steel Body Co 3040 Carroll Ave

Aristocrat—see Hody Co 3040 Carroll Ave Chicago 12 Ill
Baughman Mfg Co Shipman Rd Jerseyville
Ill (Seif-unloading)
Black & Sons Inc Adam 276 Tonnele Ave
Jersey City 6 N J
Clark Co., B. M., Union, Maine.
Converto Mfg Co Third & Green Sts Cambridge City Ind
Cook Bros Equipment Co 3334 San Fernande
Rd Los Angeles 65 Calif
Daybrook Hydraulic Div Young Spring &
Wire Corp Bowling Green Ohio "Daybrook Speedlift"
Dempster Bros Inc Box 3127 Knoxville Tenn
"Dempster Dumpster" (Detachable containers)

Easton Car & Construction Co Liberty & Holly Sts Easton Pa (Heavy duty)
Pelgelson Co Alex 500 S 4th St Beaumont
Tex

Tex
Fontaine Truck Equipment Co 1232 N 37th
Pl Birmingham Ala
GW—See Gar Wood Industries, Inc.
Gallom—See Hercules Gallon Products Inc
Gar Wood Industries Inc Wayne Mich "Gar
Wood-St Paul" (Garbage and rubbish collection unit)

lection unity Gate City Steel Inc Boise 4000 Warm Springs Ave Boise Idaho General Body & Hoist Co Paris & Garvey Sts Everett 49 Mass "Universal Hi-Lift"

Gichner Iron Works Inc Fred S 1214 24th St N W Washington 7 D C Hell Co 3000 W Montana St Milwaukee 1 Heil Co 3000 W Montana St Milwaukee 1 Wis Hercules Gallon Products Inc Gallon Ohio

"Gallon" "Hercules"
Independent Iron Works Inc Eighth & Pine
Sts Oakland 20 Cal
Lang Co 267 W First South St Salt Lake

Sts Oakiand 20 Car Lang Co 267 W First South St Salt Lake City 10 Utah Load Packer—See Gar Wood Industries, Inc. Lodestar Corp S Main St Niles Ohlo Marion Metal Products Co., Cheney Ave.,

Marion Metal Products Co., Cheney Ave., Marion, Ohio.

Mayer Body Corp Paulson & Auburn Sta Pittsburgh 6 Pa
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.

NTE—See National Truck Equipment Co National Truck Equipment Co 1611 Crystal Ave Kansas City 3 Mo "NTE"
Penn Body Div., Hiockensmith Corp., 1946 Penn St., Penn, Pa.

Perfection Steel Body Co S East St Galion Ohio (Steel and aluminum)
Press' Sons Inc Jacob 501 W 33rd St Chicago 16 III

16 III
Providence Body Co 750 Wellington Ave
Cranston R I
Roadway Mounting & Equipment Co 21177
Mound Rd Van Dyke Mich
Sabco-See Standard Auto Body Co
Sanivan-See Sicard Industries Inc

Schnabel Co S 10 & Muriel Sts Pittsburgh 3

Pa Sicard Industries Inc 753 W Main St Water-town N Y "Sanivan" (Refuse collection) Standard Auto Body Co 4900 S Soto St Los Angeles 58 Calif "Sabco" (Hydraulic) Superior Auto, Inc., 24 Sprague St., Dayton

Superior Auto, Inc., of the Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.

TEC—See Truck Engineering Corp.
Teco—See Truck Equipment Co.
Thomas & Co., Peter, 1320 Main St., Seattle

22, Wash.
Timpte Bros., Inc., E. 40th Ave. & York St.,
Denver 5, Colo.
Truck Engineering Co., 3200 E. Pontiac St.,
Fort Wayne 4, Ind. "Aristocrat"
Truck Engineering Corp., 1285 W. 70th St.,
Cleveland 2, Ohlo. "TEC."
Truck Equipment Co., 1791 Fillmore Ave.,
Buffalo 14, N. Y. "Teco."
Truck Welding & Equipment Co., 723 Ninth
Ave., N., Seattle 9, Wash.
Universal Hi-Lift—See General Body &
Hoist Co

Hoist Co elch Mfg Co 533 W Jefferson St Phoe-

Veston Dump Body Co 326 W 11th St Des Moines 9 Iowa Moines 9 Iowa Villiamsen Body & Equipment Co 9th & Wall Sts Ogden Utah (Aluminum)

BODIES, Passenger Car

Almquist Engrg Co Milford Pa (Plastic

Ainquist sport)
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa
Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich
Lunn Laminates Inc Oakwood Rd & W 11th
St Huntington Station N Y (Plastic)

BODIES, Station Wagon

Cantrell Co J T Pulaski Rd at 5th Ave Huntington Station L I N Y (For Ford Studebaker Chevrolet and G M C commercial chassis)

Esco—See Earl Sherman & Co Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.

Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
Sherman & Co., Earl, 2526 Wood St., Oakland 7, Calif. "Esco."
Silver Body Works, Inc., 78 Ingraham St.
Brooklyn 37, N. Y.
Soffe & Son Mortis 170 W Berks St Philadelphia 22 Pa
Stewart Steel Products Inc 1785 E New York
Ave Brooklyn 7 N Y (Steel)

BODIES, TA TANK-See Tanks. Trailer and

BODIES, Trailer

Aluminum Body Corp 1600 W Washington Blvd Montebello Calif
American Body & Equipment Co., P. O. Box 3107, Dallas 1, Tex.
Baltimore Body Corp., 2253 Kirk Ave., Baltimore Body Corp., 2253 Kirk Ave., Baltimore Md.
Belgrade Wagon Works 3740 E Thompson St Philadelphia 37 Pa
Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6 N J

BODIES, Trailer-continued

Boardman Co 1401 S W 11th St Oklahoma City Okla (Special duty) Born & Sons Inc Herman N North Point Rd & Bayview Ave Baltimore 24 Md "Trail-& Bayview Ave Baltimore 24 Md "Trail-ways" (Utility) Brunswick Body Wks U S Route 1 New Brunswick N J Budd Co 2450 Hunting Park Ave Philadel-phia 32 Fa

Hart & Son H A Crown Pt Rd Thorofare

Dorsey Trailers Inc Elba Ala Driban Body Works 1301 S Second St Phila-Driban Body Works 1301 S Second St Philadelpha Fa Evans Mfg Co John 3 Miles South on Hwy 15A Sumter S C Peigelson Co., Alex., 500 S. Fourth St., Beaumont. Tex

mont, Tex. G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Tex. Gar Wood Industries Inc Wayne Mich "Gar Wood-St Faul" (Dump) Gentry Body & Trailer Co., N. Fourth St.,

Gar Wood Industries Inc Wayne mich Wood-St Paul' (Dump)
Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.
Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind.
Harrisburg Truck Body Co Sheely Lane & PRR Mechanicsburg Pa.
Hotty Body Co., E. 2010 Washington Ave., N., Minneapolis, Minn.
Hooper Body Corp Siet & Warwick Ave. Newport News Va "Hooper-Blit"
Hyde Corp 2936 S Freeway Fort Worth Tex Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.
Keystone Trailer & Equipment Co., 1501
Guionette Ave., Kansas City 20, Mo.
Kingham Trailer Co., 15th & Hill Sts., Louis ville 10, Ky.
Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.
Lacey & Sons Co W F 50 Mystic Ave Medford 55 Mass
Lodestar Corp S Main St Niles Ohio (Dump)

(Dump)
Moline Body Co 222 52 St Moline III
Carriage & Auto W

offine Body Carriage & Auto Wo 1105 S E Main St Portland 14 Ore nelda Products Div Henney Mo Works Inc.

1105 S E Main St Portland 14 Ore Oneida Products Div Henney Motor Co Canastota N Y Penn Body Div Hockensmith Corp 1946 Penn St Penn Pa (Dump) Press' Sons Inc Jacob 501 W 33rd St Chicago 16 111

Quitslund Bodies & Equipment PO Box 396 North Bend Wash Scammel & Sons S 116 Quincy Ave Quincy 69 Mass

69 Mass Silver Rody Works, Inc., 78 Ingraham St. Brooklyn 37, N. Y. Soffe & Son Morris 170 W Berks St Phila-delphia 22 Pa Steffen Bedy Co., O. F., 613 W. Seventh St., Sioux City 4, Iowa. Thompson Trailer Corp 2 Old Court Rd Pikesville Md "Thompson Leveloder" Sloux Componer Trailer Thompson Pikesville Md "Thompson (Elevator type) (Elevator type) E. 40th Ave. & York St.

(Elievator Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo. Traffic Body Co 5301 N 2nd St St Louis Mo Traffic Mfs. & Sales Co., Mill St., Hummels

Wharf Pa
Trailways.—See Herman Born & Sons
Utility Trailer Mfg Co P O Box F-1 City
of Industry Calif
Weber Trailer & Mfg Co 8400 E Slauson Ave
Rivera Calif (Mailing address P O Box
2473 Los Angeles 54 Calif)
Williamson Body & Equipment Co Ninth &
Wall Sts Oeden Utah
Wright Co Thomas 185 Dey St Jersey City 6
N J

FILLING PLASTIC - See Fillers. Plastic and Metallic (For Body Panels, Fend ers, Etc.)

RODY FILLING SOLDER-See Solder

BODY HOISTS-See Hoists, Truck Body

BODY IRONS - See Hardware, Automobile and Truck Body

BODY LINING-See Lining Body or Frame

BODY MOUNTINGS, RUBBER INSULATED
—See Mountings, Rubber Insulated

BODY PARTS—See Parts Bus Body (Steel); Parts Stake Body (Steel); Parts Truck Body (Aluminum); Parts Truck Body (Steel); Ralis, Rub (Pressed Steel)

BODY SILENCING INSULATION - See Insulation, Heat & Sound (Liquid)

BOLT AND NUT SEALANTS—See Sealants, Bolt and Nut

BOLT CLIPPERS - See Clippers, Bolt and Rivet

BOLT EXTRACTORS-See Extractors, Bolt

BOLT SETTERS - See Setters, Stud, Nut, Bolt and Lag Screw

BOLT THREADING MACHINES - See Machines, Thread Cutting

BOLTS, Aircraft

Cooper Precision Products Div Standard BOLTS, Lock Pressed Steel Co 2701 S Harbor Blvd Santa Townsend Co

BOLTS, Battery Hold Down

Accurate Products Inc 135 N Spring St Indianapolis Ind Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Obio Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio cinnati 2 Ohio
Houser Engrg & Mfg Co 200 E Spring St
Bluffton Ind Sessions Co 5000 Tiedeman Rd

Lamson & Sessions
Cleveland 9 Ohlo
Loock & Co R J 243 N Gay St Baltimore Md
Murray Corp E Joppa Rd Towson 4 Md
Perfect Paris Inc 42 W 23rd St N Y 10 N Y
St Louis Screw & Bolt Co 6900 N Broadway

Perfect Parts Inc 41 W 23rd St N Y 10 N Y
St Louis Screw & Dolt Co 6900 N Broadway
St Louis 15 Mo
Sal Metal Products Co., 120 Freeman St.,
Brooklyn 22, N Y. "Sam-Sons."
Sam-Sons—See Sal Metal Products Co.
Tru-Fit Screw Products Corp 12000 Athens
Ave Cleveland 7 Ohio
Wells Mrg Corp 12 S Brooke St Fond du
Lac Wis

BOLTS, Clip

Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio Clark Bros. Bolt Co., Canal St., Milidale Clark Bros. Bolt Co., Cana.

1 Conn
Haskell Mfg. Co., Wm. H., 24 Commerce St.
Pawtucket R I
Lamson & Sessions Co 5000 Tiedeman Rd

BOLTS, Connecting Rod

Accurate Products Inc 135 N Spring St In-Accurate Products Inc 135 N Spring St Indianapolis Ind American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. Chandler Products Corp 1491 Chardon Rd Chandler Products Corp 1491 Chardon Rd Cleveland 17 Ohlo Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Ohlo Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohlo Empire—See Russell, Burdsall & Ward Bolt cinnati 2 Onio
Empire-See Kussell, Burdsall & Ward Bolt
& Nut Co.
Federal-Mogul Service Div of FederalMogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich
Ferry Cap & Set Screw Co., 2151 Scranton
Rd., Cleveland 13, Ohio.
Ferry Screw Products Inc E W 5240 Smith
Rd Cleveland 30 Ohio.

Rd Cleveland 30 Onio Co., 1971 W. 85th St., Cleveland 2, Ohio. Mac-It Parts Co Shippen & Liberty Sts Lancaster Pa Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."

BOLTS, Coupling

Buffalo Bolt Co., North Tonawanda, N. Y. Cleveland Cap Screw Co 2917 E 79th St Cleveland 4 Ohio Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn Hill Nut Co., 2620 W. Flourney St., Chicago

BOLTS, Eye Allmetal Screw Products Co 321 Stewart Ave Garden City N Y (Stainless steel) American Steel Co (P O Box 230) Sixth & Spring Sts Ellwood City Pa Buckeye Forging Co 9217 Miles Ave Cleve-land 5 Ohio Clark Bros. Bolt Co., Canal St., Milldale 1 Conn 1 Conn.
1 Conn.
1 Conn.
Cleveland—See H K Forter Co
Columbus Bolt & Forging Co 291 Marconi
Blvd Columbus 15 Ohlo
Mac—See Mechanic's Tool & Forge Co.
Mechanic's Tool & Forge Co., Howard St.,
Sabina 1, Ohlo. "Mac."

Porter Co H K Forge & Fittings Div Cleve-land Forge Works 2200 E 75th St Cleve-land 4 Ohio "Cleveland" land 4 Ohio "Cleveland" Rockford Bolt & Steel Co 226 Mill St Rock-

ford Ill Louis Screw & Bolt Co., 6900 N. Broad-

way, St. Louis 15, Mo. Vuican—See J. H. Williams & Co. Williams & Co., J. H., 400 Vuican St., Buf-iaio 7, N. Y. "Vuican."

BOLTS, KING-See Pins, King

Townsend Co New Brighton Pa

BOLTS, Machine and Carriage

Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio National Screw & Mfg Co 2440 E 75th St Cleyeland 4 Ohio Corp 1441 Republic Bldg public Steel Co Republic Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y "Empire" & Southern Screw Co 125 Barkley Rd States-ville N C

BOLTS, Spring Center

Accurate Products Inc 135 N Spring St Indianapolis Ind American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio Cleveland & Ohio
Atlas Bolt & Screw Co 1130 Ivanhoe Rd
Cleveland 10 Ohio

Cleveland 10 Ohio
Brown Corp., 213 Bellevue Ave., Syracuse.
N. Y.
Champ - Items, Inc., 6191 Mapie Ave.,
St. Louis, Mo.
Clark Bros Boit Co Canal St Milldale 1 Conne
Cleveland Cap Screw Co 2917 E 79th St
Cleveland 4 Ohio
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Empire Sep (Insperil, Burdsail, & Ward Poil

cinnati 2 Ohio
Empire—See Russell, Burdsati & Ward Rolt
& Nut Co.
Hendrix—See Service Spring Co.
Lamson & Sessions Co 5000 Tiedeman Rol
Cleveland 3 Ohio
Lightnin—See R. J. Loock & Co.
Loock & Co., R. J., 343 N. Gay St., Baltimore,
Md. "Lightnin."
National—See Wheel Parts & Mfg Co
Pheoli Mfg. Co., 5700 W. Roosevelt Rd., Chicago, Ill.

cago, Ili.

Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn \$1 N Y Republic Steel Corp Republic Bidg Cleveland 1 Ohio Russell, Burdsall & Ward Bolt & Nut Co., Fort Chester, N. Y. "Empire."

St. Louis Screw & Bolt Co., \$1 N. Broadway. &t. Louis 15, Mo.

Tuthill Spring Co., 760 W. Polk St., Chicago, Ili.

Wheel Parts & Mic Co. 35 N. Broadway.

cago, III.
Wheel Parts & Mfg Co 352 Fourth Ave New-York 10 N Y "National"

BOLTS, Spring Shackle

(Including plain bolts in addition to complete assemblies with oil or grease cups attached)

Alco—See Alloy Mfg Co
Alloy Mfg Co., 3207 S. Shields Ave., Chicago.
17, Ill. "Alco," "Alloy," "Quality Built."
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
American-Monarch Corp 5900 Park Ave.

Cleveland 5 Ohio rown Corp., 213 Bellevue Ave., Syracuse, N. Y.

Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill. lark Bros. Bolt Co., Canal St., Milldale, Clark Bros. Bolt Co., Canal St., Mildale, I Conn
I Conn
Cleveland Cap Screw Co 2917 E 79th St.
Cleveland 4 Ohlo
Empire—See Russell, Burdsall & Ward Bolt & Nut Co.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohlo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Metzger Welding Co., 1652 Powers St., Cincinnati, Ohlo.
Moog Industries Inc 6650 Easton Ave St.

Industries Inc 6650 Easton Ave St

Moog Industries Inc 6650 Easton Ave St.
Louis 14 Mo
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Permite—See Aluminum Industries, Inc.
Quality Built—See Alloy Mfg. Co.
Russell, Burdsall & Ward Bolt & Nut Co.,
Port Chester, N. Y. "Empire."
Simmons Mfg. Co., Ashland, Ohio.
Sturdy Products Corp 120 New York Ave.
Jersey City 7 N J
Thompson Products Inc 23555 Euclid Ave.
Cleveland 17 Ohio.
Traver Products Inc E Clinton St Elmira.

Trayer Products Inc E Clinton St Elmira

BOLTS, STEERING KNUCKLE-See Pine,

BOLTS, STEP-See Bolts, Machine and Car-

BOLTS. Stove

DOLIS, Stove

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Stove)
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Lok-Thred" "Tuff-Tite"
Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y "Empire"
Southern Screw Co 125 Barkley Rd States-ville N C

Nichrome—See Driver-Harris Prassed Steel Co. 705 N. Peni Wilkes-Barre, Pa.
Rolock Inc 1350 Kings High Conn X-ite—See General Alloys Co.
BOXES, Battery (Rubber)

BOLTS, Tractor

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Track and blade)

BONDERIZING — See under Sherardizing and Rust-Proofing Galvanizing,

BONDING MACHINES, ADHESIVE-See Machines, Bonding (Adhesive) BONDING OVENS-See Ovens, Brake Lining

BOOSTERS, BRAKE-See Brakes, Vacuum

BOOSTERS, STEERING GEAR-See Gears, Steering (Power Units Only)

BOOSTERS, Air To Hydraulic

Miller Fluid Power Div of Flick-Reedy Corp 2040 N Hawthorne Ave Melrose Park Ill

BOOTHS. Spraying (Enamel, Lacquer and Paint)

Co., 3114 Carroll Ave., Chicago Binks Mfg.

Biack Mfg Co 403 Penn St Baltimore 30 Md Burdett Mfg Co 4920 S Monitor St Chicago 38 III

38 Ill Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio De Vilbias Co., 300 Phillips Ave., Toledo 1, O. De Vilbiss Metal Fabricators Co 17300 Ryan Rd Detroit 12 Mich "Hydro-Whirl" Hydro-Whirl—See De Vilbiss Metal Fabricators Co.

cators Co M & E Mfg Co 2571 Winthrop Ave Indian-apolis 5 Ind Mahon Co R C 6565 E Eight Mile Rd Detroit 34 Mich

Metallizing Engrg Co 1101 Prospect Ave Westbury L I N Y "Metco"
Metco—See Metallizing Engrg Co Paasche Airbrush Co, 1909 Diversey Parkway, Chicago 14, Ill.
Schmieg Industries Inc 29330 Sherwood St Detroit 34 Mich Snraco—See Spray Engineering Co.
Spray Engineering Co 100 Cambridge St Burlington Mass "Spraco"
Young & Bertke Co 2212 Buck St Cincinnati 22 Ohio

BORERS, Jig

Cleereman Machine Tool Corp 600 Elizabeth St Green Bay Wis (Sole distributors, Bryant Machinery & Engineering Co 640 W Washington Blvd Chicago 6 III) Foodlek Machine Tool Co., Blue Rock & Ap-ple Sts., Cincinnati 23, Ohlo. "Fosdick,"

Sts., smatic

"Fosmatic." osmatic. "See Fosdick Machine Tool Co-osmatic-See Fosdick Machine Tool Co-night Machinery Co., W. B., 3920 W. Pine St., St. Louis & Mo. loore Special Tool Co., 740 Union Ave., Bridgeport, Conn. ratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn Moore

BORING BARS-See Bars, Boring (For Ma-

BORING HEADS-See Heads, Boring BORING MACHINES-See Machines, Boring BORING TOOLS-See Tools, Boring BOUCLES-See Fabrics, Upholstery

BOWLS, Filter

Johnson Glass & Plastic Corp 5246 Elston Ave Chicago 30 Ili

BOX FASTENERS-See Fasteners, Box

BOXES and POTS, Annealing and Case Hardening

Biggs Steel Fdry & Fabricating Co 1007
Bank St Akron 5 Ohio
Driver-Harris Co., Middlesex St., Harrison,
N.J. "Nichrome."
Eclipse Fuel Engineering Co 1111 Buchanan
St Rockford III

General Alloys Co 387 W First St Boston 27 Mass "X-ite" Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco" Misco—See Michigan-Standard Alloy Cast-

Misco—See Michigan-Standard Alloy Cast-ing Co Nichrome—See Driver-Harris Co. Pressed Steel Co., 705 N, Pennsylvania Ave., Wilkes-Barre, Pa. Rolock Inc 1350 Kings Highway Fairfield

(For encasing cell jars)

ne—See American Hard Hubber Conerican Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace" odrich Industrial Products Co B F 500 S Main St Akron 18 Ohio -Plast—See Richardson Co

Im-Plast-

Im-Plast—See Richardson Co
Permaplast—See Richardson Co
Plastok—See Richardson Co
Richardson Co 2667 Lake St Melrose Park
Ill "Im-Plast" "Permaplast" "Plastok"
"Richelain"
Richelain—See Richardson Co
Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts
Trenton 4 N J (Rubber and plastic)

BOXES, Gear

(For transmission assemblies—see Transmissions, Auto)

Dana Corp 4100 Bennett Rd Toledo 1 Ohio Warner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

BOXES, Junction (Auto)

Autoflex-See National Electric Products Corp

National Electric Products Corp 2 Gateway Center Pittsburgh 22 Pa "Autoflex"

BOXES, Spare Parts (Metal)

Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

BOXES, Tiering (Fibre)

Continental-Diamond Fibre Corp Newark 10 Del "Diamond" Cutler Metal Products Co., 1025 Line St., Camden, N. J. Diamond — See Continental-Diamond Fibre

Kennett—See National Vulcanizer Fibre Co National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Kennett"

BOXES, Tiering (Sheet Metal)
Bay Products Inc 2001 N 16th St Philadelphia 32 Pa pnia 32 Pa ernard Franklin Co Hedley & Bath Sts Philadelphia 37 Pa utler Metal Products Co 1025 Line St Cam-Culler Metal Frounds of the N. 21st St., Mil-den N. J. Factory Service Co., 4615 N. 21st St., Mil-waukee S. Wis "Turner System." Lyon Metal Products, Inc., 2921 Montgomery St., Aurora, III. Powell Pressed Steel Co Erie St Hubbard

Turner System-See Factory Service Co.

BOXES, Tool (Metal)

ay Products Inc 3001 N 16th St Philadel-phia 32 Pa phia 32 Pa
Bernard Franklin Co Hedley & Bath Sts
Philadelphia 37 Pa
Challenger—See Penens Corp
Chicago Tool & Kit Mfg Co 230 N Jefferson
St Chicago 6 Ill
Cornwell Quality Tools Co., Mogado: e, Ohio.
Cutler Metal Products Co 1025 Line St Camden N J
Dunn Mfg Co 117 15th St Clarinda Iowa
Duplex Mfg Corp 1415 N 32nd St Fort Smith
Ark

Ark
Durlach Can & Iron Works 360 Ninth St
Brooklyn 15 N Y
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, Ill.
Edwards Mfg. Co., 429 Culvert St., Cincinnati, Ohlo.
Hamilton-Skotch Corp 11 E 36th St N Y 16
N Y
Heller & Co. W. C.

NY Heller & Co., W. C., 1907 Wabash Ave., Montpeller, Ohio. Huot Mfg Co 550 N Wheeler Ave St Paul Minn Indestro Mfg. Co., 2649 N. Kildare Ave., Chi-Indestro sig. Co., average Cago, Ill. Kennedy Mfg. Co., North Harrison St., Van Wert, Oho. Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill. OTC—See Owatonna Tool Co

Owatonna Tool Co 342 N Cedar St Owatonna Minn "OTC"
P & C Tool Co Box 5926 Milwaukee Ore Penens Corp 3900 Wesley Terrace Schiller Park III "Challenger"
Proto Tools 2209 Santa Fe Ave Los Angeles 54 Calif S-K-See Sherman-Klove Co. 3535 W. 47th St., Chicago 32, III. "S.K."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

cago 32, Ill. "S.R." 8046 28th Ave., Kenosha, Walden, Inc., 475 Shrewsbury St., Worcester, Mass. Corp 300 Pilgrim Rd Menomonee Falls Wis

Menomonee Falls Wis Waterloo Valve Spring Compressor Co., 300 Anshorough Ave., Waterloo Iowa, Western Metal Specialty Div Western In-dustries Inc 1213 N 62nd St Milwaukee 13 Wis

BOXES, Tote (Fibre) .

Continental-Diamond Fibre Corp Newark 10 Del "Diamond"

Convoy, Inc., 3424 Navarre Rd., S. W., Canton, Ohio.

Diamond—See Continental-Diamond Fibre

Corp Kennett—See National Vulcanized Fibre Co National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Kennett" & "National" Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. (Steel clad.)

BOXES, Tote (Metal)

(Shop boxes and barrels)

(Shop boxes and barrels)
Bathey Mfg Co 100 S Mill St Plymouth Mich
Berger Div Republic Steel Corp 1038 Belden
Ave N E Canton 5 Ohio
Bernard Franklin Co Hedley & Bath Sts
Philadelphia 37 Pa
Clark Co., Geo. P., 35 Canal St., Windsor
Locks, Conn.
Cutler Metal Products Co., 1025 Line St.,
Camden, N. J.
Duplex Mfg Corp 1415 N 32nd St Fort Smith
Ark

Duplex Mfg Corp 1415 N 32nd St Fort Smith Ark
Durlach Can & Iron Works 360 Ninth St
Brooklyn 15 N Y
Equipto Div Aurora Equipment Co Prairie
St at Cleveland Ave Aurora III
K & B—See Kirk & Blum Mfg. Co.
K.R.W.—See K. R. Wilson.
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Lyon Metal Products, Inc., 2931 Montgomery
St., Aurora, III.
P & C Hand Forged Tool Co Box 5926 Milwaukle Ore
Palletainers—See Union Steel Products Co
Powell Pressed Steel Co Erie St Hubbard
Ohio
Republic Steel Corp Pressed Steel Div 6106
Truscon Ave Cleveland 27 Ohio
Salem Tool Co 767 S Ellsworth Ave Salem
Ohio

Schartow Iron Products Co., Sattley Bldg., Racine, Wis, "Sinco."

Racine, Wis, "Sipco"
Sheet Metal Specialty Div of Follansbee Steel
Corp State St Follansbee W Va
Sipco—See Schartow Iron Products Co.
Union Metal Mfg Co 1432 Maple Ave N E
Canton 5 Ohlo
Union Steel Products Co Albion Mich "Palletainers"

letainers"
'ilson Inc K R Arcade N Y "KRW"
'oungstown Kitchens Div of AmericanStandard 605 S Ellsworth St Salem Ohio

BOXES, Tote (Plastic)

Lewis Co G B 426 Montgomery St Water-town Wis "Plexton" Plexton—See G B Lewis Co

BOXES, Tote (Wood)

Backus, Jr., & Sons, A., Military at Connors St., Port Huron, Mich. (Wood & wire.) Lewis Co G B 426 Montgomery St Water-town Wis

BRACKETS, Fender (Truck)

Cutler Metal Products Co., 1025 Line St., Camden, N. J.

Camden, N. J.

Hamlin Metal Products Co 2741 Wingate Ave
Akron 19 Ohio
Akron 19 Ohio
K. & B.—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Servwell Products Co., 6519 Euclid Ave.,
Cleveland 3, Ohio. "Servwell Pyramid."
Transue & Williams Steel Forging Corp 562
Ely St Alliance Ohio
Vance Products Inc 15230 Brookpark Rd
Cleveland 11 Ohio

BRACKETS. Mirror

Akron Specialty Mfg Co 119 Ira Ave Akron 1 Ohio American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 III Anthes Force Oiler Co Ft Madison Iowa Defrosto—See Ted Prutsman Defrosto Mir-rors Inc.

Defrosto—See Yeu Francisco
rors Inc
Delbar Products Inc 7th & Spruce Sts
Perkasie Pa
Hamilin Metal Products Co 2741 Wingate Ave

Hamiin Metal Products Co 2741 Wingate Ave Akron 19 Ohio Miro-Flex Co 1524 E 2nd St Wichita 7 Kans Monarch Tool & Machinery Co., 3435 S. Racine Ave. Chicago 8. III. Norlipp Co 5526 S Lowe Ave Chicago 21 III Prutsman Defrosto Mirrors Inc Ted 11238 S Alameda St Lynwood Calif "Defrosto" Standard Mirror Co., 141 Mirton St., Buf-falo 19, N. Y.

BRAKE BONDING COMPOUNDS-See Compounds, Brake Bonding

BRAKE CYLINDER CLAMPS (Hydraulic)-See Clamps, Brake Cylinder (Hydraulic)

BRAKE LINING OVENS-See Ovens, Molded BRAKES, Press

BRAKE PARTS and ATTACHMENTS See following heads:

Brakes, Vacuum Power Cable, Brake Control Controls, Brake (Hand) Controls, Brake (Trailer)

Drums, Brake Fluid, Hydraulic Brake and Shock Absorber

Lining, Brake Locks, Brake (Hill Holding) Parts, Brake

Shoes, Brake Signals, Low Air Pressure, Brake (Auto)

BRAKES, Air

Ausco—See Auto Specialties Mfg Co
Auto Specialties Mfg Co 643 Graves St St
Joseph Mich "Ausco" (Disc)
Bendix-Westinghouse Automotive Air Brake
Co 901 Cleveland Rd Elyria Ohio (Also
accessory units for trucks and buses)
Eaton Mfg Co Axle Div 729 E 140th St Cleveland 10 Ohio (Truck)
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich
Rockwell-Standard Corp Brake Div P O Box
358 Ashtabula Ohio (For trucks and buses)
Wagner Electric Corp., 6400 Plymouth Ave.,
St. Louis 14, Mo.

BRAKES, Air-Hydraulic

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind "Bendix-Air-Pak" Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 11 Ohlo "Fawick-Girling" Wagner Electric Corp 6400 Plymouth Ave St Louis 14 Mo

BRAKES, Eddy Current (Auto) (For engines, cooling fans, generators, etc.)

Eaton Mfg Co Dynamatic Div 3307 14th Ave Kenosha Wis "Dynamatic"

BRAKES, Electric (Auto and Truck) Warner Electric Brake & Clutch Co Beloit Wis (Truck)

BRAKES, ELECTRIC (TRAILER)—See Brakes, Trailer

BRAKES, Emergency (Automatic)

Maxi Corp P O Box 3129 Terminal Annex Los Angeles 54 Calif "Maxibrake"

BRAKES, Hydraulic

BRAKES, Hydraulic

Ausco—See Auto Specialties Mfg Co
Auto Specialties Mfg Co 643 Graves St St
Joseph Mich "Ausco" (Disc)
Bendix Froducts Div., Bendix Products
Corp., South Bend 20, Ind., Products
Rawick Brake Div Fawick Corp 9921 Clinton
Rd Cleveland 11 Ohlo
Hi-Tork—See Wagner Electric Corp.
Kelsey-Hayes Co 3600 Military Ave Detroit
22 Mich
Martin Co, Gienn L., Baltimore 3 Md.
Minnesota Automotive Inc 1101 N Front St
Mankato Minn
Rockwell-Standard Corp Brake Div P O Box
358 Ashtabula Ohio (For trucks and buses)
Wagner Electric Corp., 6400 Plymouth AveSt. Louis 14, Mo. ("Wagner Lockheed"
[Licensees]: "Hi-Tork" For commercial
vehicles.)

BRAKES, Machine

Eaton Mfg Co Dynamic Div 3307 14th Ave Kenosha Wis "Dyna-Torq" (Magnetic

BRAKES, Mechanical

American Chain & Cable Co Automotive & Aircraft Div 601 Stephenson Bidg Detroit 2 Mich "Tru-Stop" (Disc) Ausco-See Auto Speciatites Mig Co Auto Specialites Mig Co 643 Graves St St Joseph Mich "Ausco" (Disc) Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.

Corp., South Bend 20, Ind.
Fawick Brake Div Fawick Corp 9921 Clinton
Rd Cleveland 11 Ohio
Kelsey-Hayes Co 3600 Military Ave Detroit
32 Mich
Shuler Axle Co 2901 S Second St Louisville
8 Ky

8 Ky Tru-Stop—See American Chain & Cable Co., Automotive & Aircraft Div. Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncle, Ind.

Cincinnati Shaper Co Hopple Elam & Gar-rand Sts Cincinnati 25 Ohio

BRAKES Trailer

BRAKES, Trailer

Bendix Products Div., Bendix Aviation
Corp South Bend 20 Ind "Bendix B-K"
(Vacuum power)

Bendix-Westinghouse Automotive Air Brake
Co 901 Cleveland Rd Elyria Ohlo
Fawick Brake Div Fawick Corp 9921 Clinton
Rd Cleveland 11 Ohlo "Fawick-Girling"
(Air-hydraulic and vacuum)
Hammer Blow Tool Co., 602½ Third St.,
Wansau Wis.

Hammer Blow Tool Co., 6021/4 Third St., Wausau, Wis. Kaloy—See Kay-Brunner Steel Products Inc Kay-Brunner Steel Products Inc 329 Meri-dian Ave Alhambra Cal "Kaloy" (Mechan-

ical)
Kelsey-Hayes Co 3600 Military Ave Detroit
32 Mich (Electric and vacuum power for
house and utility trailers)
Loadcraft—See Spencer-Safford Loadcraft

Inc
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich (Air and vacuum)
Rockwell-Standard Corp Brake Div P O Box
358 Ashtabula Ohio
Shuler Axle Co 2901 S Second St Louisville
8 Ky (Mechanical vacuum or air)
Spencer-Safford Loadcraft inc Augusta
Kans "Loadcraft"
Standard Forge & Axle Co., Hunter Station,
Montgomery 2, Ala. (Vacuum or compressed air.)

Kans
Standard Forge &
Standard Forge &
Montgomery 2, Ala. (Vacuation of the Management of Management

BRAKES, Vacuum Power (Auto and Truck)

Bendix Products Div Bendix Aviation Co South Bend 20 Ind "Bendix" "Bend

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind "Bendix" "Bendix B-K" "Hydrovae" Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 11 Ohio "Fawick-Girling" Hydrovae—See Bendix Products Div., Bendix Aviation Corp. Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich (Auto truck and bus) Midland-Ross Corp Owosso Div 490 S Chest-

Owosso Div 490 S Chest-Midland-Ross Corp

nut St Owosso Mich elvac Inc 3534 W Pierce St Milwaukee 15

BRASS and COPPER, Sheet, Rod and Ingot

(For tubing-see Tubing, Brass and Copper)

Alloy—See H K Porter Co American Brass Co 414 Meadow St Water-bury 20 Conn ("Anaconda" "Tobin Bronze" rod bronze: "Anaconda" sheet and rod phosphor bronze; "Electro-Sheet" thin sheet copper; "Formbrite" brass sheet and strin)

strip)
American Nickelold Co., Peru, Ill. (Nickel and chrome plated or polished not plated brass in sheets and coils also nickel and chrome plated on copper; "Formbrite" brass sheet and strip)
Anaconda—See American Brass Co.
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Nickel and chromium plated sheets and coils.)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn N Y (Ingot)
Berylco—See Beryllium Corp
Beryllium Corp PO Box 1462 Reading Pa "Berylco" (Beryllium copper strip rod bar wire and ingot)

Bohn Aluminum & Brass Corn., 1400 Lafayette Bidg., Detroit 26, Mich. (Brass.)
Bridgeport Brass Co 30 Grand St Bridgeport
2 Conn. (Brass rods and copper sheets)
Chase Brass & Copper Co., 236 Grand St.,
Waterbury 20, Conn. (Sheet and rod.)
Chicago Extruded Metais Co., 1642 S. 54th
Ave., Cicero 50, Ill. (Brass rod.)
Electric Materials Co., Clay & Washington
Sts., North East, Fa. (Copper.)
Electro-Sheet—See American Brass Co.
Federated Metais Div. of American Smelting
& Refining Co., 120 Broadway, New York
5, N. Y. (Rod and Ingot.)
Formbrite—See American Brass Co.
Hamden Steel & Aluminum Co., State &
Edmund Sts New Haven Conn
Lewin-Mathes Co. 12th & Chouteau Ave St
Louis 2 Mo (Rod brass)
Mueller Brass Co., 1825 Lapeer Ave., Port
Huron, Mich. (Rod.)
North American Smeiting Co., Marine Terminal, Wilmington, Del. (Ingot.)
Olin Mathleson Chemical Corp Western
Brass Mills Div East Alton Ill "Western"
(Brass strips and sheets) "Super-X" phosphor bronze strips and sheets)
Plume & Atwood Mfg Co Main St Thomaston Conn (Brass strip or coil)
Forter Co H K Riverside-Alloy Metal Div
Pavilion Ave Riverside N J "Riverside"
(Phosphor bronze and beryllium copper in
sheet, rod, strip and wire: "Alloy" nickel
clad copper in wire rod and strip)
Revere Copper and Brass Inc., 230 Park Ave.,
New York 17, N. Y. (Sheet and rod.)
Riverside—See H R Porter Co
Scovill Mfg. Co., 93 Mill St., Waterbury 20.
Conn. (Sheet and rod.)
Seymour Mfg Co 15 Franklin St Seymour
Conn (Brass sheet, strip and wire)
Super-X—See Olin Mathleson Chemical Corp
Tobin Bronze—See American Brass Co
Western—See Olin Mathleson Chemical Corp

BRAZING FURNACES-See Furnaces, Brazing BREAKER ARMS-See Arms, Breaker

BREAKER POINTS-See Points, Contact (Ig-

BREAKERS, Circuit

Allis-Chalmers Mfg Co Milwaukee 1 Wis Auto-Lite—See Electric Auto-Lite Co Bulldog Electric Products Co 7610 Jos Cam-pau Ave Detroit 32 Mich "Pushmatic" Carter Parts Co 3401 W Madison St Skokle Ill "Imp" Cole-Hersee Co 20 Old Colony Ave Boston 27

Mass Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Lite

F & B Mfg Co 4248 W Chicago Ave Chicago 51 III
Fasco Industries, Inc., 400 Davis St., Roches-

Fasco Industries, Inc., 400 Davis St., Rochester 2. N. Y.
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Heinemann Electric Co Pa Ave & Plum St
Trenton 2 N J "Magnette"
Imp—See Carter Parts Co
Klixon—See Spencer Thermostat Div Metals
& Controls Corp
Lecce-Neville Co 1274 E 51st St Cleveland 3
Ohio

Ohio
Litteffuse Inc 4757 Ravenswood Ave Des
Plaines Ill
Magnette—See Helnemann Electric Co
Mallory Electric Corp 12416 Cloverdale Ave
Detroit 4 Mich

Corp Joseph 75 Freeport St Boston Pollak Corp Joseph is received. 22 Mass. Preferred Electric Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y Pushmatic—See Bulldog Electric Products

Co.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Revnoids Mfg Co 1419 Alamo National Bidg San Antonio 5 Tex "Remco" (Automobile) Short Stop—See Underwriters Safety Device Co.

Corp., 34 Forest St., Attleboro, Mass.
"Klixon."

D Co., 6060 Rivard St., Detroit 11, Tung-Sol Electric Inc 95 Eighth Ave Newark 4 N J

4 N J Underwriters Safety Device Co 4642 N La-mon St Chicago 30 III "Short Stop" Wells Mfg Corp 12 S Brooke St Fond du Lac

Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh Pa "De-Ion"

BREATHER CAPS - See Caps, Crankcase

BROACHES

BROACHES

American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.

Apex Broach Co., 6491 E. Seven Mile Rd., Detroit 34, Mich.

Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich Connecticut Broach & Machine Co., 21 Pequot Ave., New London, Conn., "Connecticut." "Durakeen."

Continental—See Ex-Cell-O Corp., Continental—See Ex-Cell-O Corp., Continental—Tool Works Div.

Detroit Broach & Machine Co 350 S Rochester Rd Rochester Mich ixon Inc William 32 E Kinney St Newark 1 N J Durakeen.—See Connecticut Broach & Machine Co.

1 N J Durakeen—See Connecticut Broach & Ma-chine Co. Ex-Cello Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Con-

1200 Oakman tinental" inite—See Illinois Tool Works Inois Tool Wks 2501 N Keeler Ave Chi-cago Ill "Illinite" Tool Co., 34 Tower St., Illinois T

cago Ill "Illinite"

Lapolnte Machine Tool Co., 34 Tower St.,
Hudson, Mass. "Lapointe Hudson."

Little Champ—See Threadwell Tap & Die Co.
National Broach & Machine Co., 5600 St.
Jean Ave., Detroit 13, Mich. "Red Wing"

National Tool Co. 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"

Pioneer Broach Co. 6434 E Telegraph Rd
Los Angeles 22 Calif

Los Angeles 22 Cant Red Wing—See National Broach & Machine

Co. Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"
Threadwell Tap & Die Co., Greenfield, Mass. "Little Champ"
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

BROACH GRINDING MACHINES—See Ma-chines, Grinding (Broach)

BROACHING MACHINES-See Machines,

BROACHING TOOLS-See Broaches BROADCLOTH-See Fabrics, Upholstery

BRONZE, Aluminum

American Brass Co 414 Meadow St Water-bury 20 Conn "Avialite" "Tempalov" Ampco Metal Inc 1737 S 38th St Milwau-kee 46 Wis

Ree 46 Wis Avialite—See American Brass Co. Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. (Ingot.) Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y

N Y
Tempaloy—See American Brass Co.
Wheeling Bronze Casting Co 36th & Mccolloch Sts Wheeling W Va "Wheelaloy" (Bar)

BRONZE, BEARING-See Metals, Bearing BRUSHES, AIR-See Sprayers, Paint, Varnish

and Lacquer BRUSHES, BUFFING (WIRE)—See Brushes, Rotary Wire

BRUSHES, File Cleaning

Advance—See Manufacturers Brush Co. Cincinnati Tool Co 1967 Waverly Ave Cincinnati Tool Co 1967 Waverly Ave Cincinnati Tool Co. Hargrave".

Hargrave—See Cincinnati Tool Co. Heller Dr Newcomerstown

Onio Manufacturers Brush Co 12501 Elmwood Ave Cleveland Ohio "Advance" Nicholson File Co., 23 Acorn St., Providence 1, R. I. Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14. Ohio.

Simonds Saw & Steel Co 470 Main St Fitch-burg Mass

BRUSHES, Generator, Horn and Starter (Carbon, metal and woven wire)

erican Motor Products Co., Fond du Lac

American Motor Products Co., Fond du Lac Wis. "Ampco." See American Motor Products Co B.B. —See Becker Brothers' Carbon Co. B.B. —See Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. "B.B.B." (Generator and starter.)

Blue Streak—See Standard Motor Products, Inc.
Carbone Co., Myrtle Ave., Boonton. N. J. Echlin Mig Co U S Route 1 Branford Conn (Generator and starter)

F. & B. Mig. Co., 4248 W. Chicago Ave., Chicage 51, Ill. "Filko" (Generator and starter.)

Filko—See F. & B. Mfg. Co. GP—See Guaranteed Parts Co. Guaranteed Parts Co., Seneca Falls, N. Y. "GP."

"GP."
International Products & Mfg Co 1452 S
Michigan Ave Chicago 5 III
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn, N. J.
Keystone Carbon Co 1935 State St St Marys
Pa

Machined Parts Corp 6209 Hamilton Ave De troit 2 Mich "Mapco" (Generator an

troit 2 Mich "Mapco" (General Starter)
Mapco—See Machined Parts Corp.
Morganite Inc 3302 48th Ave Long Island
City 1 N Y (Generator and starter)
National—See Wheel Parts & Mfg Co
National Ignition Mfg Co 521 W 23rd St New
York 11 N Y "Nimco"
Niehoff & Co., C. E., 4925 W. Lawrence Ave.,
Chicago 30 Ill (Generator and starter)
Nimco—See National Ignition Mfg. Co.
Ohio Carbon Co 12508 Berea Rd Cleveland
11 Ohio

Island City, L. I., N. Y. (Generator and

Island City, L. I., N. Y. (Generator and starter.)
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Generator and starter sole distributors Vulcan Motor Products Inc 1969 Broad St Newark 2 N J)
Preferred Electric & Wire Co., Bush Terminal Bidg., No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.

Pa.. Shurhit Products Inc 845 S Market St Wau-kegan III (Starter and generator) Sorenson Mfg Co P 32-31 57th St Woodside 77 N Y (Generator and starter)

Speer Carbon Co., St. Ma Stackpole Carbon Co., Speer Carrys, Pa Marys, Pa. o., Tannery St., St. Marys, Pa.
Standard Motor Products Inc 37-18 Northern
Elvd Long Island City L I N Y "Blue
Streak" "Standard" (Generator and

starter) asco Products Div of Guaranteed Parts Co Seneca Falls N Y (Generator and Tasco Pro

Co Seneca Falls N Y (Generator and starter)
Valley Force Products Inc 370 19th St Brooklyn 15 N Y
Vulcan—See Paragon Products Corp.
Wells Mg Corp 12 S. Brooke St Fond du
Lac Wis (Generator and starter)
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"

dustrial)

Gustrial)

Equaload—See Keystone Carbon Co.

Graphalloy—See Graphite Metallizing Corp.

Graphite Metallizing Corp. 1983 Nepperhan

Ave Yonkers 3 N Y "Graphalloy".

Keystone Carbon Co., 1355 State St., St.

Marys. Pa "Founded."

Morganite Inc 3302 48th Ave Long Island

City 1 N Y

Pure Carbon Co., 441 Hall Ave., St. Marys, Stackpole Carbon Co Tannery St St Marys

Pa United States Graphite Co., 1621 Holland Ave., Saginaw Mich. Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 20 Pa

BRUSHES, Rotary Wire

Advance—See Manufacturers Brush Co.
Albertson & Co., 3100 Lowell Ave., Sloux
City, Iowa, "Sloux."
Anderson Corp 1029 Southbridge St Worcester 10 Mass

ter 10 Mass Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. Blue Streak—See Keel & Co. Blackhawk—See New Britain Machine Co. Burton Brush Co 11 Carleton St Cambridge Mass

Mass Cal-Van Machine Products Inc 809 S Water St Jackson Mich Dixon Inc William 32 E Kinney St Newark 1 N J

1 N J Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Her-brand," "Van Chrome." Herold Mfg. Co., 3927 Clark Ave., Cleve-

brand, "Van Chrome." Herold Mfg. Co., 3227 Clark Ave., Cleve-land 9, Ohlo. Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Blue Streak." Manufacturers Brush Co 12561 Elmwood Ave Cleveland Ohlo "Sansom" "Advance"

Cleveland Ohio "Sansom" "Advance "Radko" "Millers Falls Co Greenfield Mass Milwaukee Brush Mfg Co 2236 N 20th St Milwaukee 46 Wis Morris Co C W 10628 Cloverdale Ave Detroit

Morris Co C W 10528 Cloverdale Ave Detroit 4 Mich National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"

Ohio Brush Co., 2680 Lisbon Rd., Cleveland
14 Ohio "Ohio Quality"
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.,
Cleveland 14, Ohio.
Perfect Balance-See Pittsburgh Plate Glass
Co. (Brush Div.)
Pittsburgh Plate Glass Co. (Brush Div.),
3221 Frederick Ave., Baltimore 29, Md.
"Perfect Balance."
Radko-See Manufacturers Brush Co.
Rimac-See Rinck-McIlwaine, Inc.,
Rinck-McIlwaine, Inc., 16 Hudson St., New
York 13 N Y "Rimac"
Samson-See Manufacturers Brush Co.
Sioux-See Albertson & Co.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Swiss Laboratory 1533 Hamilton Ave Cleve-

Snap-On Tools Corp., 8046 28th Ave., Reno-sha, Wis.
Swiss Laboratory 1533 Hamilton Ave Cleve-land 14 Ohio
Van Chrome—See Herbrand Div., Bingham-Herbrand Corp.
Worcester Brush & Scraper Co 38 Austin St Worcester Mass
Wyco—See Wyzenbeek & Staff, Inc.
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 III "Wyco"

BRUSHING MACHINES - See Machines,

BUFFERS, Portable Electric

Baldor Electric Co 4351 Duncan Ave St Louis
10 Mo
Big Four Industries Inc 5938 Carthage Court
Cincinnati Ohio
Black & Decker Mfg Co 629 Pennsylvanis
Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike
Dayton 9 Ohio
Chicago Presumatic Tool Co 6 E 44th St N V

Dayton 9 Ohio Chicago Pneumatic Tool Co 6 E 44th St N V 17 N Y "Universal" "Hicycle" & "Super "Super

Cycle"
Clarke Sanding Machine Co 30 E Clay Ave
Muskegon Mich
Hicycle—See Chicago Pneumatic Tool Co.
Ingersol-Rand Co 11 Broadway N Y 4 N Y
Rotor Tool Co 23600 Lakeland Blvd Cleveland
32 Ohlo
Super Cycle—See Chicago Pneumatic Tool
Co.

Co Thor Power Tool Co 175 State St Aurora III Universal—See Chicago Pneumatic Tool Co Wilson Inc K R Arcade N Y

BUFFERS, Portable Pneumatic

Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio Chicago Pneumatic Tool Co 6 E 44th St N V 17 N Y "CP" Rotor Tool Co 23600 Lakeland Blvd Cleve-land 32 Ohio

BUFFING EQUIPMENT

See following heads: Buffers, Portable Electric Compounds, Buffing and Polishing (Metal) Machines, Buffing and Polishing Machines, Flexible Shaft (Portable Electric (Portable Electric) Wheels, Buffing and Polishing

BULBS, INCANDESCENT LAMP—See Lamps or Bulbs, Miniature Incandescent

BULLDOZER FURNACES-See Furnaces,

BULLDOZERS

Kling Bros Engrg Works 1320 N Kosher Ave Chicago 51 Ill Williams White & Co 100 Eighth St Moline Ill (Hydraulic and mechanical)

BUMPER GUARDS-See Guards, Bumper



Circle 215 on Inquiry Card for more data

BUMPERS, Automobile

(Front and rear) Auto-Lite—See Electric Auto-Lite Co Bath Co Cyril 32280 Aurora Rd Solon Ohio Body-Gard—See Nash Bros Co Electric Auto-Lite Co Toledo 1 Ohio "Auto-

daille Industries Inc Chicago Div 1455 38th St Chicago 9 Ili

W 38th St Chicago 9 III
Houdaille Industries Inc Huntington Div
900 Ninth Ave W Huntington W Va
Hutchinson Co., 5931 St. Vincents Ave.,
Shreveport, La. "Redi-Fit." (Rear, for
light trucks.)
Michigan Plating & Stamping Co 740 Ann
St N W Grand Rapids Mich
Nash Bros Co 2125 Dewey Ave Evanston III
"Body-Gard" (Steel for trucks and buses)
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa
Redi-Fit.—See Hutchinson Co.
Rheem Automotive Co 601 S Placetina Ave
Fullerton Calif

Pullerton Calif
ockwell-Standard Corp Bumper Div \$43
Fourth Ave Coraopolis Pa

BUMPERS, Spring

(Rubber or spiral spring bumpers to prevent car frame from striking axie)

Duffy Mfg Co Holland Mich Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Industrial Rubber Goods Co., St. Joseph,

Mich.
R/M.—See Raybestos-Manhattan Inc
Raybestos-Manhattan Inc Equip Sales Div
Stratford Conn "R/M"
Roberts Toledo Rubber Co 4143 Monroe St

oberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio nited States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. Toled

BURNERS, Lead

Hoke, Inc., 136 S. Dean St., Englewood, N. J.
"Hoke-Jewel." Hoke-Jewel."
Hoke-Jewel." Hoke-Jewel.
Lightning—See Tolman Mfg. Co.
National Cylinder Gas Co., 240 N. Michigan
Ave., Chicago II, III. "NGG"
NCG—See National Cylinder Gas Co
Smith Welding Equipment Corp., 2833 Fourth
St., S. E. Minneapolis 14, Minn.
Tolman Mfg. Co., 19 W. Third St., (South
Boston), Boston 27, Mass. "Lightning."

BURNISHING BARRELS—See Barrels, Burn-ishing and Tumbling

BURS

(Used in connection with flexible shaft equipment, for tool and pattern making)

Carburs—See Lincoln Fark Industries, Inc. Di-Bur—See Pratt & Whitney Co
Dixon, Inc., William, 32 E. Kinney St., Newark, N J.

Mfg Co M A P O Box 628 Davenport

Ford Milg Co as a care of the control of the care of t

Nicholson File Co., 23 Acorn St., Providence

I, R. I. ratt & Whitney Co Charter Oak Bivd West Hartford 1 Conn "Di-Bur"; "Kellerflex"

Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich "Midget Mills" (High speed and carbide) Simonds Saw & Steel Co 470 Main St Fitch-burg Mass (High speed and carbide)

BURRS—See Washers, Brass and Copper: Washers, Iron and Steel; also Washers and Burrs, Riveting

BUS BODIES-See Bodies, Bus

BUS BODY PARTS (Steel)-See Parts, Bus Body (Steel)

BUS WINDOWS-See Windows, Metal Sash (Bus, Cab and Trailer)

BUSES

Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla (Gasoline or Diesel)

Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich "Transit"

Chevrolet Motor Div of General Motors Corp General Motors Corp Detroit 2 Mich

Chassis only)

Crown Coach Corp 2500 E 12th St Los Angeles 21 Calif (Gasoline and Diesel)

Dodge Div Chrysler Corp 7900 Joseph Campau Ave Detroit II Mich (School)

Federal Motor Truck Co 834 N Seventh St Minneapolis 11 Minn

Fitz John Coach Co., Muskegon Mich.

Fixible Co 326 N Water St Loudonville Ohio "Fixible" (Intercity); "Fixible-Twin" (City)

(City)

GMC Truck & Coach Div General Motors
Corp 660 South Blvd E Pontiac 11 Mich
"GM Coach"

Gillig Bros 124 El Dorado St (P O Box 330)
Hayward Calif
International Harvester Co 180 N Michigan

International Harvester Co 130 N Michigan Ave Chicago I Ili (School) Mack Trucks Inc 1355 W Front St Plainfield N J (Gasoline and Diesel) Marmon-Herrington Co 1511 W Washington St Indianapolis 7 Ind (Also school bus

chassis)
Reo Div White Motor Co 1331 S Washingto
St Lansing 20 Mich (Gasoline and Diese

St Lansing 20 Mich (Gasoline and Diesel school)
Southern Coach Mfg. Co., Evergreen Ala.
Studebaker-Packard Corp 635 S Main St South Bend 27 Ind (Chassis only)
Superior Coach Corp E Kibby St & D T & I R I Lima Ohio (School)
Transit—See Checker Motors Corp
White Motor Co 842 E 79th St Cleveland 1 Ohio (School)

BUSHING OIL GROOVING MACHINES—See Machines Oil Grooving

BUSHINGS BABBITT-LINED BRONZE BACKED — See Bearings and Bushing BACKED - See Bronze-Backed Bushings

BUSHINGS, BRO Bushings, Bronze BRONZE - See Bearings and

BUSHINGS, DRILLING AND REAMING-See Bushings Jig

BUSHINGS, Jig

Ace Drill Bushing Co 5407 Fountain Ave Loe Angeles 29 Calif (Drill) Acme Industrial Co., 200 N. Laffin St., Chi-cago, III, (Drill)

Acme Industrial Co., 200 N. Lafin St., Chicago, Ill. (Drill)
American Drill Bushing Co 5107 Pacific Bive Los Angeles 58 Calif (Drill)
Anchor—See Hi-Shear Rivet Tool Co.
Briney—See Jig Rushing Co.
Colonial Broach & Machine Co P O Box 37
Harper Sta Detroit 13 Mich (Drill)
Ex-Cell-O Corp 1200 Oakman Bivd Detroit 32
Mich "XLO" (Drill)
Hi-Shear Rivet Tool Co 2500 W 247th St Torrance Calif "Anchor" (Drill)
Jig Bushing Co., 646 Case Ave., Pontiac, Mich, "Briney." (Sole distributors, Leland-Gifford Co., 1025 Southbridge St., Worcester, Mass.)
Kennametal Inc Lloyd Ave Latrobe Pa (Drill)

(Drill)

Metal Carbides Corp 107 E Indianola Ave
Youngstown 7 Ohio "Talide"
Meyers Co W F 1017 14th St Bedford Ind
"Meyco"
Talide—See Metal Carbides Corp
Universal Engineering Co 126 N Main St
Frankenmuth Mich (Drill)
XLO—See Ex-Cell-O Corp.

BUSHINGS. METALLIC POWDER - See Parts Metallic Powder

BUSHINGS, Roller (Tapered) (Machin-

Donley Products Inc 11106 Avon Ave Cleve-land Ohio

BUSHINGS, Rubber

Accurate Products Inc 135 N Spring St Indianapolis Ind Anchor Rubber Products Inc 1725 London Rd Cleveland 12 Ohio "Steelastic" Armor-Flex—See Doan Mfg Div of Anchor

Industries Inc.

Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 III Bushings Inc 4358 Coolidge Highway Royal Oak Mich "Rubberflex" Canfield Co H O 191 Housatonic Ave Bridge-port 1 Conn

port 1 Conn Cleveland Graphite Bronze Div of Clevile Corp 17000 St Clair Ave Cleveland 10 Ohio Clevite Harris Products Inc 6545 Carnegle Ave Cleveland 3 Ohio "Harris" "Silentbloc" "Torflex"

Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-

Fiers'
Firestone Tire & Rubber Co 1200 Firestone
Farkway Akron Ohio
Goodrich Industrial Products Co B F 500 S
Main St Akron 18 Ohio
Goshen Rubber Co 609 E Iowa St Goshen Ind
Harris—See Clevite Harris Products Inc
Kuehn Co N L 1063 N Fourth St Milwaukee 3 Wis

3 Wis. Co., 1835 W. 12th St., Erie, Pa. (Bonded to metal.)
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn R/M—See Raybestos-Manhattan Inc Raybestos-Manhattan Inc Equipment Sales Div Stratford Conn "R/M"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Rubberflex—See Bushings Inc Stientbloc—See Clevite Harris Products Inc Stendard Products Co 2130 W 110th St Cleveland 2 Ohio
Steelastic—See Anchor Rubber Products

Steelastic-See Anchor Rubber Products

Inc
Sturdy Products Corp 130 New York Ave
Jersey City 7 N J
Torflex—See Clevite Harris Products Inc
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas. New York
20, N Y

Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y

BUSHINGS, SELF-LUBRICATING-See Bearings and Bushings, Self-Lubricating (Auto)

BUSHINGS, Steel

Aetna Ball & Roller Bearing Co Div of Park-ersburg-Aetna Corp 4600 Schubert Ave Chicago 39 III

Cnicago 39 ill Aluminum Industries Inc 3670 Werk Rd Cin-cinnati 11 Ohio "Permite" Foston Gear Works Div Murray Corp 14 Hayward 8t Quincy 71 Mass Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. Murray Corp 14

Bull Dog-See Jambor Tool & Stamping Co.

veland Graphite Bronze Div of Clevite orp 17000 St Clair Ave Cleveland 10 Ohio Nut Co., 2620 W. Flournoy St., Chicago i, III.

Corp 17000 St. Lin.

Corp 17000 St. Lin.

Hill Nut Co., 2620 W. Flournoy St., Canada, 12, III.

Jambor Tool & Stamping Co., 2057 N. 30th St., Milwaukee Wis. "Bull Dog."

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo., Marquette Div Curtiss-Wright Corp 1145 Galewood Drive Cleveland 10 Ohio Permite—See Aluminum Industries, Inc.

Wagner Mfg. Co. E. R., 4611 N. 32nd St., Milwaukee 16 Wis.

ENGINES—See Engines, Butane Truck)

BUTANE ENGINES—See Engines, Butane and Propane (Bus and Truck)

CABINETS, Accessory

ABINETS, Accessory

Angle Steel Inc 56 Oak St Plainwell Mich
Bay Products Inc 2001 N 16th St Philadelphia 2 Pa

Berger Div Republic Steel Corp 1038 Belden
Ave N E Canton 5 Ohio

Bernard Franklin Co Hedley & Bath Sta
Philadelphia 27 Pa

Buxbaum Co 1212 Seventh St S W Canton

Philadelphia 27 Pa
Buxbaum Co 1212 Seventh St S W Canton
1 Ohlo (Small parts)
Cutler Metal Products Co., 1025 Line St.,
Camden. N. I.
Equipto Div Aurora. Equipment Co Prairie
St at Cleveland Ave Aurora III
FGM—See Frick-Gallagher Mig. Co.
Frick-Gallagher Mig. Co. 200 W. Second
St., Wellston, Ohlo. "FGM."
Heller & Co., W. C., 1907 Wabash Ave.
Montpeller. Ohlo.
Lyon Metal Products, Inc., 2931 Montgomery
St., Aurora, III.

CABINETS, Blast Cleaning

Leiman Bros., Inc., 207 Christie St., Newark N. J.

N. J.
Liquamatte—See Wheelabrator Corp
Pangborn Corp., 200 Pangborn Blvd.,
Hageratown, Md.
Ruemelin Mfg. Co., 2860 N. Palmer St., Milwaukee, Wis.
Slybiast—See W. W. Sly Mfg. Co.
Sly Mfg Co., W. W., 4706 Train Ave., Cleveland. Ohio. "Slyblast"
Wheelabrator Corp 402 Byrkit St Mishawaka Ind "Liquamatte" & "Wheelabrator"

CABLE, BATTERY-See Cables, Storage Bat-

CABLE, Brake Control

Bergen Wire Rope Co 52 Gregg St Lodi N J Flexite—See United Parts Mfg Co Miley Co L J 1662 W Adams St Chicago III Milwaukee Spring Co Div Illinois Con Spring Co 3400 S Nevada St Milwaukee 7 Wis Roebling's Sons Corp John A 640 S Broad St Trenton N J

St Trenton N J Teleflex Inc Box 218 North Wales Pa United Parts Mfg. Co., 1250 W. Van St., Chicago 7, III. "Flexite." Van Buren

CABLE, Brake Control (With Conduit)

American Chain & Cable Co Automotive & Aircraft Div 601 Stephenson Bidg Detroit 2 Mich "Tru-Lay" (Using "Tru-

Alferatt Div voi acceptance of troit 2 Mich Loc" fittings)
Bendix Products Div Bendix Aviation Corp South Bend 20 Ind
Bowden—See Gwilliam Co.
Lis Automotive Corp., Middletown, Conn.
Gwilliam Co 360 Furman St Brooklyn 1 N Y "Rowden" "Bowden" Lisle Corp Brake Div 805 E Main St Clarinda

Iowa.

Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich
Tru-Lay-See American Chain & Cable Co.,
Automotive & Aircraft Div.
Tru-Loc-See American Chain & Cable Co.,
Automotive & Aircraft Div.

CABLE, Ignition, Starting and Lighting

(in bulk, length on spools, rolis, etc.)
American Electric Cable Co 181 Appieton St Holyoke Mass "Lusterlac" "Power Streak"
Autu-Litee-See Electric Auto-Lite Co.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill (Lighting for trailers)
Blue Streak—See Standard Motor Products, Inc.

Inc.
Clipper—See Walker Bros.
Copperweld Steel Co Flexo Wire Div 70 W
First St Oswego N Y
Crescent Co 20 Central Ave Pawtucket R I
"Wiry Joe"
Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Lite

Wire Corp 1601 Wall St Fort Wayne Ind

Ind "SX"
reedco Products Inc 36-08 33rd St Long CABLES, Storage Battery
Island City 6 N Y
eneral Cable Corp 420 Lexington Ave N Y
(Complete with terminals

17 N Y ordan Electrical Products Div Electric Storage Battery Co 222 N Second St Min-Jordan

Storage Battery Co 222 N Second St Minneapolis I Minn Lenhart Mfg. Co., Hamburg, Pa. Lusterlac—See American Electric Cable Co Monarch Insulated Wire Co P O Box 35 Teaneck N J Ohlo Mfg Co 924 S Theresa Ave St Louis 3 Mo Packard Electric Div General Motors Dana St Warren Ohlo Power Streak—See American Electric Cable Co Realifex Products Co 225 Str.

Co Realifex Products Co 335 38th St Brooklyn 32 N Y "Realifex" "Speedway" "Yankee" Royal Electric Corp 95 Grand Ave Pawtucket

R I SX—See Essex Wire Corp. SIVER BEAUTY—See Triple-A Specialty Co Sittler Corp 18 N Ada St Chicago 7 III Sorensen Mrg Co P 32-31 57th St Woodside 77 N Y

77 N Y
Speedway—See Realflex Products Corp
Standard Motor Products Inc 37-18 Northern
Blvd Long Island City L I N Y "Bluc
Streak" "Standard"
Triple-A-Specialty Co 2835 N Western Ave
Chicago 18 Ill "Triple-A" "Silver Beauty"
Velvac Inc 3534 W Pierce St Milwaukee 15
Wis

Wis
Walker Bros River & End Sts Conshohocken
Pa "Walker of Conshohocken" "Clipper"
Whitaker Cable Corp., 1301 Burlington Ave.,
North Kansas City 16, Mo.
Wiry Joe—See Crescent Co.
Yankee—See Resifiex Products Corp

CABLES (Sets)

(Ignition and lighting assemblies made up to fit different makes of cars)

care)

American Electric Cable Co 181 Appleton St
Holyoke Mass "Lusterlac" (Ignition)

American Phenolic Corp., 1830 S. 54th Ave.,
Chicago 50, Ill.

Auto-Lite—See Electric Auto-Lite Co.
Beck Products Corp 12255 E 8 Mile Rd
Detroit 5 Mich
Belden Mfg. Co., 4647 W. Van Buren St.,
Chicago 44, Ill.

Blue Streak—See Standard Motor Products
Inc.

Inc.

Clipper-See Walker Bros.

Cole-Hersee Co., 54 Old Colony Ave., Boston 27, Mass.

21, MRSS.
Creacent Co 20 Central Ave Pawtucket R 1
"Wiry Joe"
Electric Auto-Lite Co Toledo I Ohio "Auto-Lite"

Lite"
Ertron—See Richards Mfg Co
Essex Wire Corp 1801 Wall St Fort Wayne 6 CABLES, Welding
Ind. "SX."
(See also H

Freedco Products Inc 36-08 33rd St Long Island City 6 N Y Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J Jordan Electrical Products Div Electric

Auto Parts Inc Roselle N J
Jordan Electrical Products Div Electric
Storage Battery Co 222 N Second St Minneapolis 1 Minn
Keen.—See Richards Mfg Co
Lenhart Mfg. Co., Hamburg, Pa.
Lusterlac.—See American Electric Cable Co
Monarch Insulated Wire Co P O Box 35 Teaneck N J
Ohio Mfg Co 924 S Theresa Ave St Louis 3
Mo
Packard Electric Div. Co.

Packard Electric Div General Motors Dana St Warren Ohio "Packard Four-Forty"

St Warren Charles & Wire Co Bush Terminal Bide No 8 Brooklyn 22 N Y (Ignition)
Realflex Products Co 235 38th St Brooklyn 32
N Y "Realflex" "Speedway" "Yankee"
N Y "Realflex" "Speedway" "Yankee" ilchards Mfg Co 20 E Herman St Philadel-phia 44 Pa "Keen" "Erton" "Richards Dri-

**Spark" SX—See Essex Wire Corp.
Silver Beauty—See Triple-A Specialty Co
Sittler Corp 18 N Ada St Chicago 7 Ill
Sorensen Mfg Co P 32-31 57th St Woodside
77 N V

77 N. V. Speedway—See Realflex Products Co Standard Motor Products Inc 37-18 Northern Blyd Long Island City L I N. Y. "Blue Streak" "Standard" "Triple-A-Specialty Co 2835 N. Western Ave Chicago 18 III. "Triple-A" "Silver Beauty Walker Bros River & End Sts Consahoncken Ph. "Walker of Conshohocken" "Clipper" (Spark plue)

Pa "Walker or (Spark plug) Whitaker Cable Corp., 1301 l North Kansas City 16, Mo. 1301 Burlington Ave., Wiry Joe-See Crescent Co Yankee-See Realflex Products Co

CABLES SPARK PLUG-See Cables (Sets)

(Complete with terminals and cut in proper lengths to fit different makes of cars)

American Electric Cable Co 181 Appleton St Holyoke Mass "Lusteriac" & "Power

American Electric Cable Control of the Holyoke Mass "Lusteriact" & "Power Streak" Auto-Lite—See Electric Auto-Lite Co.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Blue Streak—See Standard Motor Products

Inc.

Bowes "Scal Fast" Corp 5902 E 34th St Indianapolls 18 Ind
Clipner—See Walker Bros.
Crescent Co 20 Central Ave Pawtucket R I.
"Wirv Joe"
Deka—See East Penn Mfg Co
East Penn Mfg Co Lyons Station Pa "Deka"
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"
Electric Storage Battery Co Automotive Div

Electric Storage Battery Co Automotive Div 246 E 131st St Cleveland 1 Ohio Essex Wire Corp., 1681 Wall St., Port Wayne, Ind "SY"

reedco Products Inc 36-08 33rd St Long Island City 6 N Y eneral Cable Corp 420 Lexington Ave N Y

17 N Y ould-National Batteries Inc Industrial Div 487 Calbour St Trenton 7 N J ordan Electrical Products Div Electric Storace Battery Co 222 N Second St Min-neapolis 1. Minn. Jordan

Storage Battery Co 222 N Second St Min-neapolis 1. Minn. Lusterlac—See American Electric Cable Co Monarch Insulated Wire Co P O Box 35 Tea-neck N J National Ignition Mfg Co 521 W 23 St N Y 11 N Y "Nimeo"

Nimco-See National Isnition Mrg Co Packard Electric Div General Motors Dana St Warren Ohio

Power Streak-See American Electric Cable

Preferred Electric & Wire Co., Bush Terminal Bids. No. 8. Brooklyn 22, N. Y. SX—See Essex Wire Corp.
Sliver Reauty—See Trinla-A Specialty Co.

Sittler Corp 18 N Ada St Chicago 7 III Sorensen Mfg Co P 22-21 57th St Woodside 77 N Y

77 N Y Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"

Triple-A-Specialty Co 2835 N Western Av Chicago 18 Ill "Triple-A" "Silver Beauty

Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper" Whitaker Cable Corp, 1391 Burlington Ave., North Kansas City 16, Mo. Wiry Joe-See Crescent Co.

(See also Hose, Welding)

(See also Hose, Welding)
Airco-See Air Reduction Sales Co
Air Reduction Sales Co Socony-Mobil Bldg
150 E 42nd St N Y 17 N Y
Belden Mig. Co., 4647 W. Van Buren St.
Chicago 44, Ill.
Burdett Oxygen Co of Cleveland Inc 3300
Lakeside Ave Cleveland 14 Ohlo "Burdox"
Burdox—See Burdett Oxygen Co of Cleveland Inc
Crescent Co 20 Central Ave Pawtucket R I
"Wiry Joe"
General Cable Co 420 Lexington Ave New
York 17 N Y
Lincoln Electric Co 22801 St Clair Ave Cleve-

General Cable Co 429 Lexington Ave New York 17 N Y
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio "Stable-Arc"
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co., 840 N. Michigan
Ave., Chicago 11, Ill. "NCG."
Roebling's Sons Corp John A 640 S Broad
St Trenton N J
Sittler Corp 18 N Ada St Chicago 7 Ill
Stable-Arc—See Lincoln Electric Co
Tweco Products Co Boston at Mosley Sts
Wichita 1 Kans "Tweco-Lite"
Uniffex—See United Metal Craft Co
United Metal Craft Co 800 Lowell St Ypsllanti Mich "Unifiex"

CABS, Industrial Truck, Etc.

Allen Industrial Products Inc 200 Pilgrim Rd Menomonee Falls Wis Barkow Co H 153 N Milwaukee St Milwau-kee 2 Wis

kee 2 Wis Clark Equipment Co Industrial Truck Div Battle Creek 85 Mich Crenlo Inc 1600 Fourth Ave N W Rochester Minn

CABS, Truck Body (Wood and Metal)

ABC—See Aluminum Body Corp Allen Industrial Products Inc 300 Pilgrim Rd Menomonee Falls Wis

Aluminum Body Corp 1600 W Washington Bivd Montebello Calif "ABC" (Aluminum

Autocar Div White Motor Co Lancaster Ave Exton Pa "Driver Cab" (Metal; also sleeper)

Automotive Industries Inc Owendale Mich

Automotive Industries Inc Owendale Mich (Steel sleeper)
Bedell Trailer Co 1506 S Flores St San Antonio 4 Tex (Steel sleeper)
Brockway Motor Trucks Div of Mack Trucks Inc 106 Central Ave Cortland N Y
Chicago Mfg Co 411 N Trumbull Ave Chicago 24 Ill (Steel or aluminum)
Clark Equipment Co Brown Trailer Div Buchanan Mich (Aluminum sleeper)
Couse Mfg Inc 300 Passaic St Newark 4 N J (Armored)
Crown Steel Products Co 1330 N Main St Orrville Ohio (Steel)
Cutler Metai Products Co., 1025 Line St., Camden, N. J.
Driver Cab—See Autocar Div White Motor

Driver Cab-See Autocar Div White Motor

Co Jefferson Body Co 1711 Third Ave S Birmingham 3 Aia (Sieeper)
Kelly Mfg Co 503 Broad St Charleston 21
W Va "Kelly" "Kemco" (Steel for Jeeps)
Kemco—See Kelly Mfg Co
McLaughlin Hody Co., 2420 Third Ave., Montpeller Mfg. Co., Montpeller, Ohio.
Orrville Body Co., Orrville, Ohio, (Also sleeper.)
Stoughton Cable & Body Co 403 E South St
Stoughton Wis (Sieeper)
Timpte Bros Inc E 46 Ave & York St Den-

Stoughton Wis (Sleeper)
Timpte Bros Inc E 40 Ave & York St Denver 5 Colo (Steel sleeper)

ver 5 Colo (Steel sleeper)
Truck Cab Mfrs Inc 1201 Findlay St Cincinnati 14 Ohlo (Metal)
Wichita Body & Equipment Co 1926 N
Broadway Wichita 12 Kans (Sleeper) Youngstown oungstown Kitchens-Div of American-Standard 605 S Ellsworth St Salem Ohio

VERSATILE MIDGET MILLS HIGH SPEED AND CARBIDE



711 lowa Rd. . Saginaw, Michigan

Circle 216 on Inquiry Carl for more data

CAB WINDOWS-See Windows, Nietal Sash (Bus, Cab and Trailer)

CADMIUM PLATING-See Plating Cadmium-

CALCIUM CARBIDE-See Carbide, Calcius

CALENDERING and COATING MATERIALS
—See Resins Synthetic (For Bonding, Impregnating, Laminating and Protective Coatings)

CALIPERS and DIVIDERS

CALIPERS and DIVIDERS

Ames Co B C 12 Ames St Waltham 54
Mass (Calipers)
Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.
Davis Boring Tool Div of Giddings & Lewis
Machine Tool Co 475 S Seymour St Fond
du Lac Wis (Micrometer calipers)
Dixon Inc William 32 E Kinney St Newark
I N J
DoAll Co 254 N Laurel Ave Des Moines Iowa
Kastar Inc 200 Lincoln Ave N Y 54 N Y
Keystone Reamer & Tool Co., Millersburg,
Pa.

Pa. Lufkin Rule Co Hess Ave Saginaw Mich Master Specialty Co 3725 Monitor Ave M

Lufkin Rule Co Hess Ave Saginaw Mich Master Specialty Co 3725 Monitor Ave Min-neapolis 26 Minn Millers Falls Co., Greenfield, Mass Peck Stow & Wilcox Co 217 Center St South Ington Conn "Pexto" (Dividers) Pexto—See Peck, Stowe & Wilcox Co. Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. Starrett Co., L. S., 1 Crescent St., Atho, Mass

Mas Mass
Swedish Gage Co of America 10641 Haggerty
Ave Dearborn 1 Mich (Calipers)
Union Tool Co., 48 E. River St., Orange.

Mass Woodworth Corp C B Greene N Y (Indicating calipers)

CAM GRINDING MACHINES—See Machines. Grinding (Cam)

CAMSHAFTS, Cast

Campbell, Wyant & Cannon Foundry Co Muskegon Mich "Cannonite" Cannonite—See Campbell, Wyatt & Cannon Foundry Co.

CAMSHAFTS, Finished or Machined (For camshafts in the rough-see Forgings)

Accurative-See Muskegon Motor Specialities

Almquist Engrg Co Milford Pa (Racing Atlas Industries Inc 2000 E Main St W

wille O Continental Motors Corp., Muskegon 82, Mich Muskegon Camshaft Co Seventh & Larch Sts Muskegon 81 Mich "Accurative" (Finished) Ohio Crankshaft Co 3800 Harvard Ave Cleve-land 5 Ohio Universal Camshaft Co 350 E Broadway

niversal Camshaft Co 350 E Broadway Muskegon Heights Mich

CAMSHAFTS, Forgings

Ladlah Co., 5481 S. Packard Ave., Cudahy, ark Drop Forge Co., 777 E. 79th St., Cleve-land 3. Ohio.

Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio

CANS, Oily Waste

Justrite Mfg Co 2061 W Southport Ave Chi-cago 14 III

CAPS, Crankcase Breather

(See also Ventilators, Crankcase)

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Alr-Mase Corp 25000 Miles Rd Cleveland 28 Badger Mfg Corp 1501 W Polk St Chicago

Berkson Products Inc 217 N Desplaines St Chicago 6 III Vortox Co 121 S Alexander Ave Claremont Calif

CAPS. Gasoline Tank

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Accurate Products Inc 135 N Spring St In-dianapolis Ind "Accurate" "Nevr-Lose" American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King Bee Kant Lose" (Non-syphonable) Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich

Badger Mfg Corp 1501 W Polk St Chicago Berkson Products Inc 217 N Desplaines St Chicago 6 Ill "Seal-Tite" "Berkson" Chilton Metal Products Inc 300 Breed St Chilton Wis

Chilton Wis
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Eaton Mfg Co Stamping Div 17877 St Clair
Ave Cleveland 10 Ohio
Evrseal—See Stant Mfg Co
Freedco Products Inc 36-08 33rd St Long
Island City 6 N Y
King Bee—See American Automatic Devices
Co.

Lightnin thin-See R J Loock & Co oin Brass Works 2067 12th St Detroit 16 Mich

Mich Loock & Co, R J, 343 N Gay St, Baltimore, Md "Lightnin" Monarch Insulated Wire Co., 491 Broadway, New York 12, N Y. Namsco Inc 333 31st Ave Bellwood III "Na-tional"

al-See Namsco Inc; also Wheel Parts & Mfg Co
Nevr-Lose—See Accurate Products Inc
Norlipp Co., 5925 S. Lowe Ave., Chicago 21

NI.

Roylin Inc 620 Paula Ave Glendale 1 Calif
(Sole distributors Airaterra 620 Paula
Ave Glendale 1 Calif)
Sal Metal Products Co., 120 Freeman St.,
Brooklyn 22, N. Y. "Sam-Sons."
Sam-Sons—See Sal Metal Products Co.
Seal-Tite—See Berkson Products Inc
Stant Mfg Co 1620 Columbia St Connersville
Ind "Evrseal"

Victor Instrument Mfg Co 23 W 60th St New York 23 N Y Wheel Parts & Mfg Co 352 Fourth Ave New York 10 N Y "National"

CAPS, Gasoline Tank (Locking)

Automatic Gas-Lok-See Riley Products Badger Mfg Corp 1501 W Polk St Chicago

III
Berkson Products Inc 217 N Desplaines St
Chicago 6 III "Berkson" & "Seal-Tite"
Dual-Loc-See Stant Mfg Co
Edelmann & Co E Wayne Metalcraft Div
2322 Logan Blvd Chicago 47 III "Wayne"
Electroline Mfg Co 2622 E 51st St Cleveland

2345
Electroline Mfg Co 2000
4 Ohio
Evrseal—See Stant Mfg Co
Gaslox—See Riley Products Corp
Ivano Gaslox—See Riley Products Corp
Ivano Gaslox—See Riley Products
Woodward Ave Detroit 1 Mich
National—See Wheel Parts & Mfg Co
Norlipp Co 5925 S Lowe Ave Chicago 21
Ill
Corp 2749 N Lincoln Ave Chi-

Illy Products Corp 2749 N Lincoln Ave Chicago 14 Ill "Automatic Gas-Lok" "Tvano Gaslox" "Gaslox" "Trojan Gas-Lok" Seal-Tite-See Berkson Products Inc Stant Mfg Co 1620 Columbia St Connersville Ind "Dual-Loc" "Evrseal" "Trojan Gas-Lok—See Riley Products Corp Wayne—See E Edelmann & Co Wheel Parts & Mfg Co 352 Fourth Ave., New York 10, N. Y. "National." CAPS, TANK—See Caps, Gasoline Tank Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohlo.

CAPS, Hub

AFS, RUB
Akron-Selle Co High & Chestnut Sts Akron
11 Ohio (To order)
Auld Co., D. L., Fitth Ave. & Fifth St.,
Columbus. Ohio.
Auto-Lite-See Electric Auto-Lite Co
Badger Mfg Corp 1501 W Polk St Chicago

m

Brown-Lipe-Chapin Div General Motors Corp Town Line Rd Syracuse N Y Crosby Co., 183 Pratt St Buffalo N Y Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite" Lite

Co., 3400 Beekman St., Cincinnati 33,

FOX CO., 3400 Beekman St., Chcinnati 23, Ohio.
Geneva Metal Wheel Co., 191 Factory Row.
Geneva. Ohio.
Hamlin Metal Products Co 2741 Wingate
Ave Akron 19 Ohio
Hurd Lock & Mfg Co 219 N Main St Aimont
Mich (For Ford Packard and Willys cars)
Konigslow Mfg Co Otto 2600 Perkins Ave
Cleveland 14 Ohio
Mechanex Corp 1144 Broadway Denver 3 Colo
Namsco Inc 333 31st Ave Bellwood Ill "National"
National — See Namsco Inc also Wheel
Parts & Mfg Co
Oakes North Chicago Div. of Houdaille-Hershey Corp., 2138 National Bank Bidg., Detroit, Mich.
Rockford Metal Products Inc 716 Cedar St

Rockford Metal Products Inc 716 Cedar St

Wesbar Stamping Corp., West Bend, Wis. Wheel Parts & Mig Co., 352 Fourth Ave., New York 10, N. Y. "National."

CAPS, Oil Filler

Accurate Products Inc 135 N Spring St In-dianapolis Ind Badger Mfg Corp 1501 W Polk St Chicago III

7 Ill Berkson Products Inc 217 N Desplaines St Chicago 6 Ill "Seal-Tite" Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio Edelmann & Co E Wayne Metalcraft Div 2332 Logan Bivd Chicago 47 Ill "Wayne" Everseal—See Stant Mfg Co Seal-Title—See Berkson Products Inc Stant Mfg Co 1620 Columbia St Connersville Ind

Technical Development Co PO Box 82 Glenolden Pa -See E Edelmann & Co

CAPS. Radiator

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Pressure Accurate Products Inc 135 N Spring St In-

Accurate Froducts Inc 135 N Spring St Indianapolis Ind
American Insulator Corp., New Freedom, Pa (Composition.)
Badger Mg Corp 1501 W Polk St Chicago Ill (Underhood and pressure)

Ill (Underhood and pressure)
Berkson Products Inc 217 N Desplaines St
Chicago 6 Ill (Pressure and non-pressure)
Dorman Products Inc 1904 Syxamore St Cincinnati 2 Ohio (Pressure)
Eaton Mig Co Stamping Div 17877 St Clair
Ave Cleveland 10 Ohio (Pressure)
Edelmann & Co E Wayne Metaleraft Div
2332 Logan Blvd Chicago 47 Ill "Wayne"
(Pressure)

2332 Logan Blvd Chicago 47 III "Wayne" (Pressure)
Everhot Products Co 2001 W Carroll Ave Chicago 12 III (Pressure)
Evrseal—See Stant Mfg Co Loock & Co R J 243 N Gay St Baltimore Md (Pressure and underhood)
Namsco Inc 333 31st Ave Bellwood III "National"

ritinal—See Namsco Inc; also Wheel Parts & Mfg Co Orlipp Co., 5925 S. Lowe Ave., Chicago 21

Rockford Metal Products Inc 716 Cedar St Rockford III
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Sam-Sons—See Sal Metal Products Co Stant Mfg Co 1620 Columbia St Connersville Ind "Evrseal" (Standard and pressure)
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Wayne—See E Edelmann & Co
Wheel Parts & Mfg Co 352 Fourth Ave New York 10 N Y "National"

CAPS, Tire Valve

APS, Tire Valve

Acme Air Appliance Co 205 Newman St

Hackensack N J

Autocap—See Emvir Mfg. Co.

Bowes "Seal Fast" Corp 5902 E 24th St Indianapolis 18 Ind

Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.

Ill Mfw Co 766 E 824 St Cleveland ? Ohio

Drure Bros Mfg Co 388 92nd Ave Oakland 3

Calif (Sole distributors Tru-Flate Inc 888
92nd Ave Oakland ? Calif)

Dublitie—See A Schrader's Son Div of Ecovill Mfw Co

Dublitie—See A Schrader's Son Div of Eco-vill Mfg Co
Emvir Mfg Co 1705 Lincoln St Evanston III
"Autocap" (Automatic)
G M Co Mfg Inc 13-08 43rd Ave Long Island City L I N Y
Hill Nut Co 2620 W Flournoy St Chicago

City L I N Y

Hill Nut Co 2620 W Flournoy St Chicago
12 III

Planet Metal Products Corp 964 Dean St
Brooklyn 38 N Y

Schrader's Son Div of Scovill Mfg Co A 476
Vanderbilt Ave Brooklyn 38 N Y "Dublitie"

Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis.
Syracuse Gauge Co PO Box 51 Manlius
N Y

Victor Instrument Mfg, Co., 23 W. 66th St.

Victor Instrument Mfg. Co., 33 W. 60th St. New York 23, N. Y.

CARBIDE, Calcium

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "National

American Cyanamid Co Industrial Chemicals

American Cyanamid Co Industrial Chemicals
Div Metal Chemicals Section 30 Rockefeller
Plaza N Y 20 N Y
Carbic—See Linde Co
Linde Co 30 E 42nd St New York 17 N Y
"Carbic" "Union"
National—See Air Reduction Sales Co.
Shawinigan Products Corp., Empire State
IBidg., 350 Fifth Ave., New York 1, N. Y.
Union—See Linde Co

CARBIDE, Cemented

(For cemented carbide tools - See under Tools, Cutting)

Ludlum Steel Corp Carmet Div

Allegheny Ludlum Steel Corp Carmet Div Detroit 20 Mich Carboloy—See General Electric Co Firlomet—See Firth-Load Metals Inc Firth-Load Metals Inc Buttermilk Hollow Rd McKeesport Pa "Firlomet" General Electric Co Metallurgical Products, Dept 11777 E 8 Mile Rd Detroit 32 Mich "Carboloy"

"Carboloy"
Kennametal Inc Lioyd Ave Latrobe Pa
Vikide—See Viking Tool Co
Viking Tool Co 1000 Nichols Rd Shelton
Conn "Vikide"
Wesson Tool Co 12200 Woodward Heights
Blyd Ferndale 20 Mich "Wessonmetal"
(Blanks)
Willey's Carbide Tool Co., 1340 W. Vernor
Highway, Detroit 1, Mich.

ARBON PENETRATION
COMPOUNDS — See Com
Penetration Preventing PREVENTING Compounds, Carbon

CARBON REMOVERS-Solvents, Oil, Carbon and Grease Removing

CARBORUNDUM PAPER-See Paper, Abra-

CARBORUNDUM WHEELS - See Wheels,

ARBURETOR PARTS AND ATTACH MENTS — See Cleaners, Air, Carbureto (Auto); Controls, Carburetor Choke (Auto matic); Controls, Push-Pull; Floats, Cork Floats, Metal; Parts, Carburetor; als Silencers, Carburetor Intake CARBURETOR ATTACH.

CARBURETORS, Butane, Propane & LP-Gas

(See also Converters LP-Gas for Gaseline Engines)

Gaseline Engines)

Algas—See American Liquid Gas Corp.

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif. "Algas."

Beam Products Mfg Co 3040 Rosslyn St Los Angeles 65 Calif.

Century Gas Equipment Marvel-Schebler Products Div Borg-Warner Corp 625 Southside Dr Decatur III

Ensign Carburetor Co 1551 E Orangethorp Ave Fullerton Calif.

J & S Carburetor Co 2634 N Beckley St Dallas 2 Tex

Zenith Carburetor Div of Bendix Aviation Corp 696 Hart Ave Detroit 14 Mich

J&S. las 2

CARBURETORS, Gasoline

Almquist Engrg Co Milford Pa Carter Carburetor Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo (Auto-matic and manual choke)

matic and manual choke)
Eclipse Machine Div., Bendix Aviation Corp.,
Elmira, N. Y. "Stromberg." (For equipment sales.)
Holley Carburetor Co 11955 E Nine Mile Rd.
Van Dyke Mich.
Marvel-Schebler Products Div Borg-Warner Corp. Decatur III'
Rochester Products Div., General Motors
Corp., 1000 Lexington Ave., Rochester 3.
N. Y.
Stromberg—See Felling.

Stromberg-See Eclipse Machine Div Bendix

Stromberg—See Eclipse Satelline Dr. Aviation Corp.
Aviation Corp.
Tiliotson Mfg Co 761 Berdan St Toledo Ohio.
Zenith Carburetor Div. of Bendix Aviation
Corp., 696 Hart Ave., Detroit 14, Mich.
"Zenith"; (Also "Zenith Gov-U-Retor"
Combination carburetor and governor.)

CARDS, FILE-See Brushes, File Cleaning

CARPET, Auto

(See also Coverings, Floor [Bus or Truck])

Automotive Products Div Crotty Corp 35 E Chicago Ave Quincy Mich Collins & Alkman Corp 210 Madison Ave N Y 16 N Y

W. H., 319 Broadway, New Duncan Co., York, N. Y.

Fabric Mfg Co 97 Chestnut St Newark 5 N J

Fabrica Mig Co 37 Chestnut St Newark 5 N 5 Leacarpet—See Lea Fabrics, Inc.
Lea Fabrica, Inc., 768 Freilinghuysen Ave..
Newark, N. J. "Leacarpet."
Masland & Sons, C. H., Carlisle, Pa.
National Automotive Fibres Inc 19925 Hoover
Ave Detroit 5 Mich

Newark Auto Top Co 80 Central St Newark 2 N J "Newart" Co J P 803 W 11 Mile Rd Royal Ste R

Oak Mich Vogt Mfg Corp 100 Fernwood Ave Rochester 21 N Y

CARRIERS, Storage Battery

Accurate Products Inc 135 N Spring St Indianapolis Ind
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill
Bishman Mfg. Co., Osseo, Minn.
Blackhawk—See New Britain Machine Co
Blitz Electric Co 5713 Wentworth Ave Chicago 21 Ill

Biltz Electric Co 5713 Wentworth Ave Chicago 21 III
Champ-litems Inc 6191 Maple Ave St Louis
14 Mo
Continental Bearings Corp 2515 S Wabash
Ave Chicago 16 III
Duro Metal Farts Co., 2649 N. Kildare Ave.
Chicago 39, III.
Five Star Mfg Co Box 149 Clarksdale Miss
"Kat's Karrier"
Houser Engrg & Mfg Co Blufton Ind
K-D Mfg Co 526 N Plum St Lancaster Pa
Kat's Karrier—See Pive Star Mfg Co
Kirspel Industries Inc Livingston N J
Lightnin—See R. J. Loock & Co.
Loock & Co., It. J., 843 N Gay St., Baltimore, Md. "Lightnin"
Murray Corp E Joppa Rd Towson 4 Md
National—See Wheel Parts & Mfg Co
New Britain Machine Co Hand Toole Di.
South St New Britain Conn "Blackhawk"
& "New Britain"
Pollak Corp Joseph 75 Freeport St Boston
22 Mass
Powercraft Corp 2515 S Wabash Ave Chi-

Pollak Co 22 Mass

Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Powercraft Corp 2515 S Wabash Ave Chicago 16 III "Powerfio"
Powerfio-See Powercraft Corp.
Preferred Electric & Wire Co.. Bush Terminal Bidg No 8. Brooklyn 22. N. Y.
Rovtar Tool-Die Mfg Co., 2230 S Wood St., Chicago 8 III.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y. "Sam-Sons."
Sam-Sons—See Sal Metal Products Co. Silver Beauty—See Triple-A Snecialty Co. 2835 N Western Ave Chicago 18 III "Triple-A" "Silver Beauty"
Victor Instrument Mfg. Co., 23 W. 66th St. New York 23, N. Y.
Wells Mfg Corp 12 S Brooke St Fond du Lac Wis

Wheel Parts & Mfg Co 352 Fourth Ave NY 10 NY "National" Zim Mfg Co 3037 Carroll Ave Chicago 12 Ill

CASE-HARDENING-See Treating, Heat CASE-HARDENING BOXES AND POTS—See Boxes and Pots, Annealing and Case Harden

ing

CASE-HARDENING COMPOUNDS—See Compounds, Case Hardening

CASE-HARDENING FURNACES-See Fur naces, Heat Treating CASING. FLEXIBLE METALLIC-See Shaft

ing, Flexible CAST PHENOLIC PLASTICS—See Plastics— Cast (Phenolic and Resin)

CASTING MACHINES, DIE-See Machines

CASTINGS. Aircraft

Thompson Products Inc 2355 S Euclid Ave Cleveland 17 Ohio

CASTINGS, Die

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Zinc) Ainsworth-Precision Castings Co Div of Harsco Corp 3200 Guardian Bidg Detroit 26 Mich (Aluminum and zinc and mag-

26 Mich (Aluminum Co. of America.
Alcoa—See Aluminum Co. of America.
Alpha Industries Inc 615 Center St Loganport Ind (Aluminum)
Aluminum: Co of America 1501 Alcoa Bidg
Pittsburgh 19 Pa "Alcoa" (Magnesium)
Auto-Lite—See Electric Auto-Lite Co Wood-

stock Div adger Die Casting Corp., 201 W. Oklahoma St., Milwaukee 7, Wis. (Zinc and alumi-

num.)
Benton Harbor Malleable Industries, Graham
Ave., Benton Harbor, Mich. (Cast zinc.)
Brown-Lipe-Chapin Div General Motors
Corp Town Line Rd Syracuse N Y (Zinc)

Chicago Die Casting Mfg. Co., 2510 W. Mon-roe St., Chicago 12, III. Conformatic—See Sterling Aluminum Prod-

Conformatic—See Sterling acts Inc ucts Inc Congress Die Casting Div Tann Corp 3750 E Congress Diva Detroit Mich

Congress Die Casting Die Congress Die Casting Duter Drive Detroit Mich D.-W.—See Du-Wel Metal Products Inc Daybro—See Dayton Die Casting Co. Dayton Die Casting Co., 111 Front St., Dayton, Ohio. "Daybro." (Zinc, lead and aluton, Ohio. "Daybro." (Zinc, lead Co

ayton Die Castine ton, Ohio. "Daybro." (Zinc, lead and aluminum.)
oceliler-Jarvis Div of National Lead Co
Smead & Prospect Ave Toledo 1 O "DolerZink" "Doler-Mag" "Doler-Brass" "DoLite" "Doler-Alsiloy" (Aluminum, zinc,
brass and magnesium)
Dayblar-Jarvis Div of National

Doler-See Doehler-Jarvis Div of National Lead Co Do-Lite-See Doehler-Jarvis Div of National Lead Co

Do-Lite—See Doenier-Jarvis Div of National Lead Cop., 604 S. Zist St., Irvington 11, N. J. (Zinc and aluminum.) Dow Chemical Co Midland Mich "Dowmetal" (Magnesium alloy) Dowmetal—See Dow Chemical Co. Du-Wel Metal Products Inc PO Box 307 Eangor Mich "D-W" (Zinc and aluminum) Electric Auto-Lite Co Toledo I Ohio "Auto-Lite" (Zinc and aluminum) Federal Die-Casting Co 2222 Elston Ave Chi-cago 14 Ill GitC—See Gries Reproducer Corp Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "G R C" (Small zinc)

Gries Reproducer Corp Beechwood average Second St New Rochelle N Y "G R C" (Small zine)
Hall Lamp Co., C. M., 1035 E. Hancock
Ave., Detroit, Mich. (Zinc and aluminum.)
Hardy Mfg Corp W Pearl St Union City Ind (Zinc base plated) Harvill Mfg Co H L P O Box 177 Corona

Calif Hoover Co North Canton Ohio (Aluminum and zinc)

Jacobs Co F L 1043 Spruce St Detroit 1 Mich (Zinc)

Light Metals Inc 1100 E 24th St Indianapolis 5 Ind "Ly-Mie" (Aluminum and magnesium)
Ly-Mie—See Light Metals Inc

nesium)
Ly-Mie—See Light Metals Inc
Madison-Kipp Corp., 201 Waunesa St., Madison, Wis.

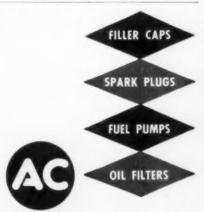
son, Wis.

Magline Inc 952 Murray Rd Pinconning Mich
(Aluminum and magnesium)

Milwaukee Die Casting Co 4148 N Holton St
Milwaukee 12 Wis (Aluminum, lead, tin

Milwaukee 12 Wis (Alumioum, lead, tin and zinc)
Monarch Aluminum Mfg Co 9205 Detroit Ave Cleveland 2 Ohio "Veivaglaze" (Aluminum and zinc)
Monarch Governor Co 2800 Tyler Rd Willow Run Mich

Run Mich Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. Newton-New Haven Co., 680 Third Ave., West Haven 16, Conn.



QUALITY **PRODUCTS**

ADAPTERS (DRIVE) . AIR CLEANERS . AIR CLEANERS AND SILENCERS (COMMUNATION) . AMMETERS . REFATHERS

(IGNITION WIRE) . VALVES (CRANKCASE VENTILATION)

(CRANKCASE) . DIE CASTINGS (ZINC) . FLEXIBLE SHAFT ASSEMBLIES . FUEL AND VACUUM PUMPS (COMBINATION) . FUEL FILTERS. FUEL STRAINERS . GASOLINE STRAINERS . GAUGES-AIR (PRESSURE). GASOLINE, OIL (PRESSURE). TEMPERATURE (WATER, OIL) . PANELS (INSTRUMENT) . SPEEDOMETERS . TACHOMETERS . TERMINALS

AC A THE ELECTRONICS DIVISION OF GENERAL MOTORS . FLINT, MICHIGAN Circle 217 on Inquiry Card for more data

CASTINGS. Die-continued

Paragon Die Casting Co., 5851 Dickens Ave., Chicago 39, Ill. (Aluminum and zinc.)
Paramount Die Casting Co St Joseph 20 Mich (Aluminum and zinc)
Parker White-Metal Co., 23rd St. & Pennsylvania Ave., Erie, Pa. "Parker Erie." (Zinc, aluminum and brass.)
S—See Stewart Die Casting Div St. Louis Diecasting Corp., 4528 Oleatha Ave., St. Louis 16, Mo. (Aluminum and zinc.)
Standard Brass Corp. 915 W. Porre St. Del Standard Brass Corp. 915 W. Porre St. Del

Standard Brass Corp 915 W Perry St Bel-

videre III Stant Mfg. Co., 1620 Columbia St., Conners-ville, Ind. (Chrome plated.) Sterling Aluminum Products Inc 2600 N Third St St Charles Mo "Conformatic"

Third St St Charles Mo "Conformatic" (Aluminum)
Stewart Die-Casting Div of Stewart-Warner
Corp 4535 Fullerton Ave Chicago 29 Ill
"S" (Zinc and aluminum)
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Titan Metal Mfg Co Bellefonte Pa
Velvaglaze—See Monarch Aluminum Mfg Co

CASTINGS, Gray Iron (See also Rings, Piston [Castings for Same])

See Campbell, Wyant & Cannon

C.W.C.—See Campbell, Wyant & Cannon Foundry Co.
Campbell, Wyant & Cannon Foundry Co.
Muskegon Mich "CWC"
Eaton Mfg Co Foundry Div 700 E Huron St.
Vassar Mich
Gray Iron Div General Malleable Corp Waukesha Wis
National Motor Castings Div Campbell
Wyant & Cannon Foundry Co Div Textron
Inc South Haven Mich (Pistons gears cylinder heads and manifolds)
Wheland Co Foundry Div 2800 S Broad St.
Chattanooga 2 Tenn

CASTINGS, Magnesium

ASTINGS, Magnesium

Aluminum Co of America 1501 Alcoa Bidg Pittsburgh 19 Pa

Dow Chemical Co Midiand Mich "Dowmetal" (Sand and permanent mold)

Dowmetal—See Dow Chemical Co.

Hills-McCanna Co. 3025 N. Western Ave., Chicago 18, Ill. "McCannicore."

Light Metals, Inc., 1100 E. 24th St., Indianabolis 5, Ind. "Ly-Mie." (Sand, permanent mold)

I.v.-Mie—See Lieht Metals, Inc.

I.v.-Mie—See Lieht Metals, Inc.

(Sand and permanent mold)

Midwestern Magnessium Div Flint & Walling Mig Co E Mitchell St Kendaliville Ind (Sand)

(Sand) Clandian older Control of the Cannon Ave Lansdale Pa (Sand and permanent mold)
—See Stewart Die-Casting Div of Stewart-

See Stewart Die-Casting Div of Stewart-Warner Corp
Stewart Die-Casting Div. of Stewart-Warner
Corp., 4535 Fullerton Ave., Chicago 39, Ill.
"S"

Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio Well-Cast—See Wellman Bronze & Alumi-num Co. Wellman Bronze & Aluminum Co 12800 Shaker Blvd Cleveland 20 Ohio "Well-Cast"

CASTINGS, Malleable Iron

Albion Malleable Iron Co Albion Mich Auto Specialties Mfg Co -543 Graves St St Joseph Mich Central Foundry Div General Motors Corp 37 Florence St Saginaw Mich "Armasteel" National Malleable & Steel Castings Co 10600 Quincy Ave Cleveland 6 Ohio (Also Quincy pearlitic)

CASTINGS, Monel Metal

Atlas Simplex Corp 32 W Deshler Ave Columbus Ohio Frontier Bronze Corp 4870 Packard Rd Nia-gara Falls N Y Waukesha Foundry Co., Lincoln Ave., Wau-kesha, Wis.

CASTINGS, Nickel

Inco—See International Nickel Co-International Nickel Co., 67 Wall St., New York S. N. Y. "Inco." Waukesha Foundry Co., Lincoln Ave., Wau-kesha, Wis.

CASTINGS, Nickel-Chromium

Allegheny Ludium Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa

Chromax—See Driver-Harris Co. Cimet—See Driver-Harris Co. Colmonoy—See Wall Colmonoy C

'Colmonoy

Cimet.—See Driver-Harris Co.
Colmonoy.—See Wall Colmonoy Co
Driver-Harris Co., Middlesex St., Harrison,
N. J. "Nichrome." "Chromax," "Cimet."
Eastern Malleable Iron Co Naugatuck Works
112 Bridge St Naugatuck Conn
Inco—See International Nickel Co.
International Nickel Co., 67 Wall St., New
York 5, N. Y. "Inco."
Nichrome—See Driver-Harris Co.
Wall Colmonoy Corp 19345 John R St Detroit
3 Mich "Colmonoy"

CASTINGS, Steel

3 Mich

Allegheny Ludlum Steel Corp., 2020 Oliver Bldg Pittsburgh 22 Pa "FCC" (Stainless and alloy Tool) Almont Mg. Co., Imlay City, Mich. (Semi.) Auto Specialties Mfg Co 643 Graves St St

uto Specialties Mfg Co 533 Graves St of Joseph Mich ethiehem Steel Co., Bethlehem, Pa. loker & Co H 191 Duane St New York 7 N Y "Kinite" (High carbon and high chrome)

chrome)
CHF—See Chicago Hardware Foundry Co
Campbell Wyant & Cannon Foundry Co
Muskegon Mich
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis (Semi)
Chicago Hardware Foundry Co 2500 Commonwealth Ave North Chicago III "CHF"
(Sami)

Malleable Castings Co 1225 W 120th Chicago Malicado Castings Co 1225 W 130th St Chicago 48 Ill Cincinnati Steel Castings Co., Spring Grove, Alabama & Bates Aves., Cincinnati, Ohio. Clark Equipment Co Buchanan Mich

Alabama & Bates Aves., Cincinnati, Ohio. Clark Equipment Co Buchanan Mich Crobalt Inc 2800 S State St Ann Arbor Mich (Stainless high speed and carbon) Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio "Mineor" (Tool) Dayton Malleable Iron Co 1401 W 2nd St Dayton 1 Ohio Dayton Steel Foundry Co 1336 Miami Chapel Rd Dayton 1 Ohio Dodge Steel Co., 6501 Tacony St., Philadelphia 35, Pa. (Carbon and alloy.) Eastern Malleable Iron Co Naugatuck Works 112 Bridge St Naugatuck Conn Electric Steel Castings Co 1045 Main St Speedway Indianapolis 24 Ind FCC—See Allegheny Ludium Steel Corp. Falk Corp 3001 W Canal St Milwaukee Wis "Moly-Telastic" General Alloys Co 387 W First St Boston 27 Mass (Stainless) Gillet & Eaton Inc 8th & Doughty Sts Lake City Minn (Semi) Grede Foundries, Inc., 1320 S. First St., Milwaukee I, Wis. (Carbon, alloy, nitralloy and stainless.)

waukee 1, Wi

waukee 1, Wis. (Carbon, alloy, nitralloy and stainless.)
Gunite Foundries Corp 202 People Ave Rockford II (Electric)
Indiana Foundry Corp., Tenth & Liberty Sts., Muncle, Ind. (Semi.)
Kay-Brunner Steel Products, Inc., 999 Meridian St., Alhambra, Cal.
King Foundries, Inc., Elm Ave. & Center St., North Wales, Pa. (Semi.)
Kinte-See II. Boker & Co.
Link-Beit Co Prudential Plaza Chicago 1 III Mackintosh-Hemphili Div E W Bliss Co 901
Blingham St S 8 Pittsburgh Pa.
Maynard Electric Steel Casting Co., 2856 S.
27th St., Milwaukee 7, Wis.
Michlana Products Corp Alloy Div Foundry
Div & Steel Fabricating Div Michigan
City Ind (Stainless)
Michigan-Standard Alloy Casting Co., 1999
Guion St., Detroit 7, Mich. "Misco."
(Stainless.)
Mineor-See Darwin & Milner Inc
Misco-See Michigan-Standard Alloy Casting
Co.
Moly-Telastic—See Falk Corp
Monroe Steel Castings Co. 217 W Prop. See

Moly-Telastic—See Falk Corp Monroe Steel Castings Co 917 W Front St Monroe Mich

Monroe Steel Castings Co 917 W Front St Monroe Mich Mountain State Steel Foundries Inc Parkers burg W Va (Carbon and alloys)
National Maileable & Steel Castings Co 10600 Quincy Ave Cleveland 6 Ohio (Alloy)
Newark Maileable Iron Works, 357 Wilson Ave., Newark, M. J. (Semi.)
Racine Steel Castings Co., 1442 Forest St., Racine, Wis
Superior Foundry Inc 3542 E 71st St Cleveland 5 Ohio (Semi.)
Superior Steel & Maileable Castings Co., 399 Graham Ave Benton Harbor, Mich.
Union Mfg Co 296 Church St New Britain Conn (Semi.)
Unite Metal Mfg. Co., 1432 Maple Ave., N.E., Canton 5. Ohio. (Semi.)
Uniteast Corp Box 8 Station E Toledo 9 Ohio "Uniteastings" (Low alloy and carboon)

bon)
Waukesha Foundry Co., Lincoln Ave., Waukesha, Wis. (Stainless.)

CELLULOID MOLDINGS — See Plat Molded (Phenolic, Urea, Cellulose tate, Polystyrene, etc.)

CELLULOID, SHEET—See Plastics—Sheets, Transparent

CELLULOSE ACETATE MATERIALS—See Plastics—Materials

CEMENT, For Bo Metal, Wood, Etc. Bonding Rubber to

Clair-Cements—See St Clair Rubber Co Chrysler Corp Cycleweld Cement Products Div 5437 W Jefferson Ave Trenton Mich "Cycleweld"

"Cycleweld"
Cycleweld—See Chrysler Corp
Cycleweld—See Chrysler Corp
L. I., Fabrica

Cycleweld—See Chrysler Corp
du Font de Nemours & Co., E. I., Fabrics
Div Fairfield Conn "Fairprene"
Fairprene—See E. I. du Font de Nemours &
Co., Fabrics Div.
Firestone Tire & Rubber Co 1200 Firestone
Farkway Akron Ohio
Gasgacine—See Porter Mfg. & Supply Co.
Griptite—See St. Louis Rubber Cement Co.
Marbon Chemical Div Borg-Warner Corp
Washington W Va "Ty-Ply"
Porter Mfg. & Sungity to 2335 Supple Blyd
Porter Mfg. & Sungity to 2335 Supple Blyd

Washington W Va "Ty-Ply"
Porter Mig & Supply Co 2536 Sunset Blvd
Los Angeles 26 Calif "Gasgacinch"
St Clair Rubber Co 440 Jefferson Ave E
Detroit 28 Mich "Clair-Cements"
St Louis Rubber Cement Co 514 Calvary Ave
St Louis 15 Mo "Griptite"
Ty-Ply—See Marbon Chemical Div BorgWarner Corp
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York
20, N. Y.

CEMENT, BRAKE BO BONDING-See

CEMENT, Disc Wheel Abrasive

Kindt-Collins Co., 12651 Elmwood Ave. Cleveland 11, Ohio. "Master." Master-See Kindt-Collins Co. Mid-West Abrasive Co 510 S Washington St., Owosso, Mich. Stevens Inc Frederic B 1800 18th St Detroit 18 Mich.

CEMENT, Leather

EMENT, Leather
Albeco-See American Leather Belting Cc
American Leather Belting Co 1455 W Congress St Chicago Ill "Albeco" "American"
Graton & Knight Co., 356 Franklin St., Worcoster 4, Mass. "Neptune," "Royal Worcester". See Graton & Knight Co.,
Rhoads & Son J E 2100 W 11th St Wilmington 99 Del
Royal Worcester—See Graton & Knight Co.

CEMENT, Resin Base

EMENT, Resin Base

Permafuse Corp 675 Main St Westbury N Y
Raybestos Div of Raybestos-Manhattan Inc
75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M"

Rez-N-Glue—See Schwartz Chemical Co
Schwartz Chemical Co 326 W 70 St N Y
23 N Y "Rez-N-Glue"

CEMENT, Rubber (Liquid)

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich. Bell Co 411 N Wolcott Ave Chicago 22 Ill "Flare"

"Flare"
Sondrite—See U B S Chemical Corp
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio "Welltried"
Chem—See Patch Rubber Co
Clair-Bond—See St. Clair Rubber Co.
Cohrlastic—See Connecticut Hard Rubber

Cohriastic—See Connecticut Hard Rubber Co Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohriastic" (Silicone) Durkee-Atwood Co. 216 Seventh St., N. E., Minneapolis 13, Minn. 'Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio Fiare—See Bell Co. Flex-O-Fix—See Pyroll Co Gold Eagle Products Co 1050 W Kinzie St Chicago 22 Ill Goodrich Industrial Products Co B F 500 S Main St Akron 15 Ohio Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio. Gross Mig. Co., 1711 California St., Monrovia, Calif. Hollingshead Corp R M 840 Cooper St Camden N J Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill Loxite—See Xylos Rubber Co Miller Rubber Co., Div. of B. F. Goodrich Co., 699 15, Main St., Akron, Ohio. "RubBub." Patch Rubber Co P O Box 933 Akron 9 Ohio

Patch Rubber Co P O Box 933 Akron 9 Ohio

Permatex Co 300 Broadway Huntington Sta- CHAINS, Block

tion N Y Pyroll Co 122 N Main St La Crosse Wis "Flex-O-Fix" Rub-Bee Samuel Moore & Co. St. Clair Rubber Co., 449 Jefferson Ave., E., Detroit, Mich. "Clair-Boad." Sauereisen Cements Co Sharpsburg Sta Pitts-

Detroit, Mich. Char-boba.

Sauereisen Cementa Co Sharpsburg Sta Pittsburgh 15 Pa
Stay-Tite Products Co 9400 Steinway Ave
Cleveland 4 Ohio
Sure-Rite-See Warehouse Dist Co
U B S Chemical Corp 491 Main St Cambridge Mass "Bondrite"
United States Rubber Co., Rockefeller Center, 1230 Ave, of the Americas, New York
20, N. Y.
Universal Chemical Div R M Hollingshead
Corp 840 Cooper St Camden 2 N J
Warehouse Distributing Co 3810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
Welterled-See Buckeye Rubber Products Inc
Western States Mig Co 311 Main St Sioux
City Ia "Western Weld"
Xylos Rubber Co 1200 Firestone Parkway
Akron 1 Ohio "Loxite"
ENTER DRIVE FACING LATHES—See

CENTER DRIVE FACING LATHES—See Lathes, Center Drive Facing

CENTER GAGES-See Gages, Center

CENTERING MACHINES - See Machines Centering

CENTERING REELS (FOR PRESSES)—See Reels, Centering (For Presses) CENTERLESS GRINDERS—See Machines, Grinding (Centerless)

CENTERS, Bench

Acme Industrial Co 200 N Laffin St Chicago

7 III
Barber-Colman Co., 1300 Rock St., Rockford, III.
Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.
Sundstrand Machine Tool Co., 2531 11th St.,
Rockford, III.
Swanson-Eric Corp 814 E 8th St Eric Pa
Taft-Peirce Mfg. Co., 32 Mechanic Ave.,
Woonsocket, R. I.

CENTERS, INDEX-See Heads, Dividing

CENTERS, Lathe and Grinder Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich (Live) Chicago-Latrobe 426 W Ontario St Chicago 10 III (Lathe) Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14. Ohlo. Cieveiand 14, Ohio. Ideal Industries Inc 1014 Park Ave Syca-more III (Live) Industrial Diamond Co 2392 Wolcott Ave Ferndale 20 Mich Ferndale 20 Mich
J. & S. Tool Co. 87 Dorsa Ave Livingston
N. J. (Live)
Kennametal, Inc. Lloyd Ave Latrobe Pa. (Cemented carbide)
Marvel Tool & Machine Co. 1096 N. River Rd. St. Clair Mich.
Metal Carbides Corp. 107 E. Indianola. St. Youngstown 7 Ohio. "Talide"
Motor Tool Mfg. Co. Box 3805 Park Grove Sts. Detroit 6 Mich.
Nielsen, Inc., Lawton, Mich. (Live.)

Motor Tool Mfg Co Box 3805 Park Grove Sts Detroit 5 Mich Nielsen, Inc., Lawton, Mich. (Live.) Reltool Corp 4540 W Burnham St Milwaukee 46 Wls (Lathe) Scully-Jones & Co 1977 S Rockwell St Chicago S III (Live) South Bend Lathe Works 425 E Madison St South Bend 22 Ind (Lathe) Standard Tool Co 3850 Chester Ave Cleveland 14 Ohio (Lathe) Sturdimatic Tool Co 3822 F St Detroit 16 Mich PCT—See Tungsten-Carbide Tool Co. Talide—See Metal Carbides Corp Tungsten-Carbide Tool Co 26250 W 7 Mile Rd Detroit 19 Mich "TCT" Universal Engineering Co., Frankenmuth, Mich. Whitman & Barnes, Div. of United Drill &

Mich. Whitman & Barnes, Div. of United Drill & Tool Corp 40085 Plymouth Rd Plymouth Mich Mich Tilley's Carbide Tool Co., 1340 W. Vernon Highway, Detroit 1, Mich. WI

CENTRAL CONTROL PANELS—See Panels, Central Control

CHAIN BLOCKS-See Block or Hoists, Chain CHAIN DRIVES—See Chains, Silent (Industrial); also Chains, Timing (Auto)

CHAIN HOISTS-See Blocks or Hoists, Chain CHAIN TIGHTENERS-See Tighteners, Chain (Industrial)

Boston Gear Works Div Murray Corp 14 Hayward St Quincy 71 Mass Chain Belt Co 47.53 W Greenheid Ave Milwau-kee 1 Wis "Rex" Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
Link-Belt Co Prudential Plaza Chicago 1 Ill Rex—See Chain Belt Co. Whitney Chain Co 237 Hamilton St Hartford 2 Com

CHAINS, Conveyor

Badger Maileable & Mfg. Co., 223 N. Chi-cago Ave., South Milwaukee, Wis. Bartiett & Show Co., C. O., 6200 Harvard Ave., Cleveland 5, Ohio. Chain Belt Co 4733 W Greenfield Ave Milwau-kee 1 Wis "Rex" rarress-Cheek Steel Co., Ft. First St., Sandusky, Ohio. Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio Farrell-Cheek Steel Co., Ft. First St., San- CHANNELS, Glass (Felt) Onto Joy Mig Co 333 Oliver Bldg Pittsburgh 22 Pa Lebanon Drop Forge Co., Avon, Pa. Link-Belt Co Prudential Plaza Chicago 1 Ill 'Promal -See Mechanical Handling Systems Inc MHS—See Mechanical Handling Systems Inc
Mechanical Handling Systems Inc
Mechanical Handling Systems Inc
Mancy Ave., Detroit 12 Mich "MHS"
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Promal—See Link-Belt Co
Rex—See Let Link-Belt Co
Stephens-Adamson Mfg Co 150 Ridgeway St
Aurora III
Transue & Williams Steel Forging Corp 562
Ely St Alliance Ohio
Union Chain & Mfg Co Sandusky Ohio
Webb Co Jervis B 8925 Alpine Ave Detroit 4
Mich
Mich
Mich
Mich
Mechanical Handling Systems Inc
Hamilton-Wade Co., 52 Haverhi
ton, Mass, (Felt covered.)
Standard Products Co., 2130 V
Cleveland 2, Ohio.
Western Felt Works 4021 W
Chicago 23, III.

CHANNELS, Glass (Metal)
Balley Co 21 Water St Amesbur
lined; sole distributors to or
ment, D A Green Sales Co D

Mich Webster Mfg. Inc., Tiffin 16, Ohio. "Z." Whitney Chain Co 237 Hamilton St Hartford 2 Conn Z—See Webster Mfg. Inc.

CHAINS, Roller (Industrial)

Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio Chain Beit Co 4733 W Greenfield Ave Milwau-kee 1 Wis "Rex" kee 1 Wis "Rex"
Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
Link-Belt Co Prudential Plaza Chicago 1 Ill
Morse Chain Co Ithaca N Y
Palmer-Bee Co Ondyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Rex—See Chain Belt Co
Union Chain & Mfg Co Sandusky Ohio
Whitney Chain Co 237 Hamilton St Hartford
2 Conn

CHAINS, SILENT (Auto)-See Chains, Timing (Auto)

CHAINS, Silent (Industrial)

Link-Belt Co Prudential Plaza Chicago 1 Ill "Silverstreak" Morse Chain Co Ithaca N Y Silverstreak—See Link-Belt Co.

CHAINS, Timing (Auto)

Chain Belt Co 4733 W Greenfield Ave Milwau-kee 1 Wis "Duckworth" kee 1 Wis "Duckworth"
Cloyes Gear & Products Inc 17214 Roseland
Rd NE Cleveland 12 Ohio
8 B Mfg Co 2312 S Indiana Ave Chicago 16 III Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7. I

Silverstreak—See Link-Belt Co Whitney Chain Co 237 Hamilton St Hartford 2 Conn Wolverine Gear & Parts Co Osseo Mich

and SPROCKETS, Power CHAINS Transmission

Bartlett & Snow Co., C. O., 6200 Harvard Ave., Cleveland 5, Ohlo. Chain Belt Co 4733 W Greenfield Ave Milwau-kee 1 Wis "Rex" C. O., 6200 Harvard kee 1 Wis "Rex" Culiman Wheel Co., 1344 Altgeld St., Chicago 14, Ill.

Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind. Hy-Vo—See Morse Chain Co Jeffrey Mfg Co 846 N 4th St Columbus 16

Ohio
Link-Belt Co Prudential Plaza Chicago 1 Ill
Morse Chain Co Ithaca N Y "Hy-Vo"
Philadeiphia 34, Pa.
Philadeiphia 34, Pa.
Ramsey Chain Co., Troy Rd., Albany, N. Y.
Rex—See Chain Belt Co.
Union Chain & Mig Co Sandusky Ohio
Webster Mig. Inc., Tiffin 16, Ohio.
Whitney Chain Co 237 Hamilton St Hartford
Conn.

CHAIRS, BUS-See Seats, Bus

CHAMFERING MACHINES—See Machines, Gear Tooth Chamfering and Finishing

American Felt Co., Glenville, Conn. Brawley Felt Co., T. R., 272 20th St., Brook-lyn, N. Y. Detroit Gasket & Mfg Co 12640 Burt Rd De-

Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Felt Products Mfg Co 7450 N McCormick
Blvd Skokie Ill
Felters Co., 210 South St., Boston 11, Mass.
Hamilton-Wade Co., 52 Haverhill St., Brockton, Mass. (Felt covered.)
Standard Products Co., 2130 W. 110th St.,
Cleveland 2, Ohlo.
Western Felt Works 4021 W Ogden Ave
Chicago 23, Ill.

Bailey Co 21 Water St Amesbury Mass (Feit lined; sole distributors to original equipment, D A Green Sales Co Detroit Mich.) Dee Gee—See Detroit Gasket & Mfg. Co. Detroit Gasket & Mfg. Co., 12840 Burt Rd., Detroit 23, Mich. "Dee Gee."

Detroit 23, Mich. "Dee Gee."
Jacobs Co. F. L. 1943 Spruce St., Detroit 1
Mich.
Lange Machine Works, Henry G 156 N May
St Chicago 7 Ill
Mitchell Specialty Div Industrial Enterprises
Inc. Edmund & Shelmire Sts Philadelphia

36 Pa Schlegel Mfg Co 1555 Jefferson Rd Roches-ter 23 N Y (With pile linings) Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio. "Steechan." (Rubber

covered) Steechan-See Standard Products Co.

CHANNELS, Glass (Rubber)

Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky "Au-ve-Co" Au-ve-Co—See Auto Vehicle Parts Co Bowling Green Kubber Co 4143 Monroe St Toledo 13 Ohlo Buckeye Rubber Products Inc 637 N Jackson St Lima Ohlo Continental Rubber Works 1946 Liberty St

brie Pa ooper Tire & Rubber Co., Lima & Western

Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Industrial Rubber Goods Co., St. Joseph, Mich.
Johnson Rubber Co Middlefield Ohio KM—See Kravex Mfg. Corp.
Kravex Mfg Corp 634 Prospect Pl Brooklyn N Y "KM"

o-See Henry G. Lange Machine

Works. Lange Machine Works, Henry G 156 N May St Chicago 7 Ill "Lamacho"

CASTINGS BY

Campbell, Wyant and Cannon Foundry Company Division of Textron Inc.

MUSKEGON, MICHIGAN

Sanford Street Henry Street Broadway Plant Plant Plant SOUTH HAVEN, MICH. | LANSING, MICH. National Motor Centrifugal Fusing Company Castings Division Grey Iron and Steel Castings—Centrifugally Cast Sleeves—Centrifused Brake Drums

Circle 218 on Inquiry Card for more data

CHANNELS, Glass (Rubber)-continued

Mechanical Rubber Products Co., Warwick,

N. Y.
Republic Rubber Div Lee Rubber & Tire CHUCKING MACHINES
Corp Albert St Youngstown 1 Ohlo
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohlo

Products Co 2130 W 110th St Cleve-

united States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HARGERS, BATTERY (AUTO)—See erators, Electric Lighting and Bi Charging (Auto) CHARGERS. Battery

CHARGERS, Battery (Industrial Truck)

Berg-Gibson Mfg Co 817 E 17th St Kansas City 8 Mo Christie Electric Corp 3410 W 67th St Los Angeles 43 Calif Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohlo Hertner Electric Co 12699 Elmwood Ave

Cleveland 11 Ohio Mortor Generator Corp Troy Ohio

CHARGING SYSTEMS RECTIFIERS (Auto)
—See Rectifiers, AC-DC Charging System (Auto)

CHECKS, Door (Car and Truck)

CHECKS. Door (Car and Truck)
Cleveland—See H K Porter Co
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio
Goodrich Industrial Products Co B F 500 S
Main St Akron 18 Ohio (Car)
Graton & Knight Co 356 Franklin St Worcester 4 Mass (Car)
Hope Webbing Co P O Box 1495 Providence
1 R 1 (Fabric car)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland" (Truck)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Sutherland Leather & Feit Co., 743 Beaubien

Sutherland Leather & Feit Co., 743 Beaubien St., Detroit 24, Mich. (Car.) Tompkins H S 188 Chambers St N Y 7 N Y (Car.)

(Car)
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Car.)

CHEMICAL FIRE TANKS-See Tanks Chem-

CHEMICALS, Electroplating

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. (Cadmium.

Zinc. etc.1
Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J.
du Pont de Nemours & Co E I Electroplating
Dept Wilminston 98 Del
Hanson-Van Winkle-Munning Co Matawan
N J "H-V W-M"
Harshaw Chamical Co 1945

Chemical Co 1945 E 97th St

Harshaw Chemical Cleveland & Ohio M&T-See Metal & Thermit Corp Metal & Thermit Corp 100 E 42nd St N Y 17 N Y "M & T" (Tin) Stevens Inc Frederic B 1800 18th St Detroit

CHEMICALS, METAL CLEANING — See Cleaners, Metal

CHEMICALS, Pickle Control

Amchem Products Inc Brookside Ave & Reading RR Ambler Fa "Rodine" Oakite Products Inc 19 Redor St N Y N Y Rodine—See Amchem Products Inc

CHEMICALS. RUST PREVENTING AND RE-MOVING—See Compounds, Rust Preventing and Removing

CHILLING MACHINES, INDUSTRIAL — See Machines, Chilling (Industrial)

CHIP SEPARATORS-See Separators. Chip

CHOKE ADAPTERS, HAND-See Adapters, CHUCKS, Gear Holding Choke (Hand)

CHOKE CONTROLS (AUTOMATIC) — See Controls, Carburetor Choke (Automatic)

CHROME PLATING ADDITIVE-See Additives, Chrome Plating

CHROMIUM ALLOY-See Alloys, Chromium CHROMIUM PLATING - See Plating,

CHUCK GAGES-See Gages, Chuck (Tire In-

CHUCKING GRINDERS - See Machines, Grinding (Chucking)

CHUCKING LATHES-See Lathes, Chucking See Machines. Chucking (Multiple Spindle)

CHUCKS, Air (Machinery)

Ajust-Tru-See Buck Tool Co Buck Tool Co 2015 Schippers Lane Kalama-zoo Mich "Ajust-Tru"

zoo Mich "Ajust-Tru"
Cushman Chuck Co sooi Windsor St Hartford Z Conn
Erickson Tool Co 2309 Hamilton Ave Cleveland 14 Ohio
Logans-See Logansport Machine Co.
Logansport Machine Co Center Ave Logansport Ind "Logan"
S-P Mfg Corp 30201 Aurora Rd Solon Ohio
Skinner Chuck Co 95 Edgewood Ave New
Britain Conn
Enion Mfg Co 296 Church St New Britain

Union Mfg Co 296 Church St New Britain Conn

CHUCKS, Collet

CHUCKS, Collet

Ajust-Tru-See Buck Tool Co
Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.
Buck Tool Co 2015 Schippers Lane Kalamazoo
Mich "Ajust-Tru"
Cushman Chuck Co., 806 Windsor St., Hartlord Z. Com.
Erickson Tool Co 2309 Hamilton Ave Cleveland 14 Ohlo
Hardinge Bros., Inc., 1418 Coilege Ave.,
Elmira, N. Y.
Index Machinery Co 4907 Foley Rd Cincinnati
38 Ohlo

Index Machinery Co 4907 Foley Rd Cinc. 38 Ohlo Jacobs Mfg Co West Hartford 10 Conn Jacobs Mfg Co West Hartford 10 Conn

Jacobs Mfg Co West Hartford 10 Conn
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Procunier Safety Chuck Co., 18 S. Clinton
St. Chicago 6, Ill.
Rivett Lathe & Grinder Inc., 20 Riverview
Rd. Brighton. Boston, Mass.
S-P Mfg Co 30201 Aurora Rd Solon Ohlo
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill
South Bend Lathe Works 425 E Madison St
South Bend 22 Ind
Sutton Tool Co 306 Magnolia St Sturgis
Mich

Mich Universal Engineering Co 126 N Main St Frankenmuth Mich Zagar Tool Inc 24000 Lakeland Blvd Cleve-land 23 (this

CHUCKS, Drill

AMF Wahlstrom-See AMF Tool Div American Machine & Foundry Co

AMF Tool Div American Machine & Foundry

Co 224 Glenwood Ave Bloomfield N J "AMF

Co 224 Glen Wahlstrom Wahlstrom"

Do All Co 254 N Laurel Ave Des Plaines III

Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y

G M Co Mfg Co 13-08 43rd Ave Long Island
City L I N Y

Jacobs Mfg Co West Hartford 10 Conn

Kett Tool Co 5055 Madison Rd Cincinnati 27

Ohio.

Chie Co., K. O., Congress at First Ave., S. E., Aberdeen. S. D.

McCrosky Tool Corp., S. Main St., Meadville, Pa., "Wizard."

Millers Falls Co., Greenfield, Mass.
Oneida Machine Tool Corp 2800 E Walnut St Oneida N Y "Westcott"

Procunier Safety Chuck Co., 18 S. Clinton St., Chicago 6, Ill

Scully-Jones & Co 1977 S Rockwell St Chicago Ill

South Bend Lathe Works 425 E Madison St.

cago III South Bend Lathe Works 425 E Madison St South Bend 22 Ind

South Rend 22 Ind
Supreme Products Corp 2222 S Calumet Ave
Chicago 16 Ill
Waukesha Cutting Tools Inc Midland &
Pearl Sts Waukesha Wis
Westcott—See Oneida Machine Tool Corp
Wizard—See McCrosky Tool Corn
Yankee Tools Inc Div Stanley Tools American St & Lehigh Ave Philadelphia 33 Pa

Garrison Machine Works, Inc., 515 Bannock St., Dayton 4, Ohio. (Pitch line control for spur, helical, internal, bevel, herringbone and cluster gears.)

Woodworth Co., N. A., 1300 E. Nine Mile Rd., Detroit 20, Mich.

CHUCKS, Lathe

Ajust-Tru-See Buck Tool Co Barker-See Thomas Hoist Co.

Buck Tool Co 2015 Schippers Lane Kalamazoo

Mich "Ajust-Tru" Cushman Chuck Co., 804 Windsor St., Hart-ford 2, Conn. Dexter—See Leavitt Machine Co.

Dexter—See Leavitt Machine Co.
Gisholt Machine Co., 1307 E. Washington
Ave., Madison 10, Wis.
Jacobs Mig Co West Hartford 10 Conn
Leavitt Machine Co., 10 E. River St., Orange,
N. J. "Dexter."
Lee Co., K. O., Congress at First Ave., S. E.,
Aherdeen, S. D.
Oneida Machine Tool Corp 2600 E Walnut St
Oneida N Y "Westcott"
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn

Hartford 1 Conn Royal Oak Tool & Machine Co 29800 Stephen-

son Highway Royal Oak Mich Skinner Chuck Co 95 Edgewood Ave New Britain Conn South Bend Lathe Works 425 E Madison St South Bend 22. Ind Thomas Hoist Co., 20 S. Hoyne Ave., Chi-cago 12. Ill "Barker."

Thomas Hoist Co., 20 S. Hoyne Ave. Chicago 12. Ili "Barker" Union Mfg. Co., 296 Church St., New Britain. Conn. Warner & Swasey Co 5701 Carnegie Ave Cleveland 2 Ohio Westcott—See Oneida Machine Tool Corp

CHUCKS, Magnetic

Brown & Sharpe Mfg. Co., 235 Promenage St., Providence, R. I. DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill. (Electro-magnetic.)
Power-Grip—See Sundstrand Magnetic Products Co Sundstrand Magnetic Products Co Div of Sundstrand Machine Tool Co 1020 Ninth St Rockford Ill. "Power-Grip" (Electro-mag-

Sundstrand N Rockford III Machine Tool Co 1020 Ninth St "Power-Grip" (Electro-mag-

Superpower—See Taft-Peirce Mfg Co Taft-Peirce Mfg Co 32 Mechanic Ave W socket R I "Superpower" (Electric permanent)

CHUCKS, Milling Machine

Ajust-Tru—See Buck Tool Co Brown & Sharpe Mg. Co., 235 Promenade St., Providence, R. I. Buck Tool Co 2015 Schippers Lane Kalamazoo Mich "Ajust-Tru" Skinner Chuck Co 95 Edgewood Ave New

Britain Conn nion Mfg Co 296 Church St New Britain

CHUCKS, PNEUMATIC — See Chucks, Air Machinery)

CHUCKS, Tap

Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio. Erickson Tool Co. 2309 Hamilton Ave Cleve-land 14 Ohio Errington Mechanical Laboratory Inc 24 Nor-wood Ave Stapleton S I 4 N Y Jacobs Mig Co West Hartford 19 Conn McCrosky Tool Corp., S. Main St., Mead-ville, Pa.

Jacobs Mig Co West Haitubu McCrosky Tool Corp., S. Main St., Mead-wille, Pa., Procunier Safety Chuck Co., 18 S. Clinton St., Chicago S. Ill. Roddick Tool Co 1023 Pauline St Anaheim Calif
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill

CHUTES

Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo Chain Belt Co., 1733 W. Bruce St., Milwau-kee 4, Wis. "Rex." Haiss Mfg Co George 350 Fifth Ave N Y 1 N Y

N Y
Hunt Co., C. W., Div. Gifford-Wood Co.,
Hudson, N. Y.,
K. & B--See Kirk & Blum Mfg. Co.,
Kirk & Blum Mfg. Co. 3120 Forrer St Cincinnati 9 Ohio "K & B"
Link-Belt Co Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 16 Ky
Mathews Conveyor Co. 102 Tenth St Elkwood City Pa
Rex--See Chain Belt Co
Webster Mfg Co Tiffin 16 Ohio

CIGAR LIGHTERS-See Lighters, Electric

CIRCLE CUTTERS - See Cutters, Washer and Gasket CIRCUIT BREAKERS-See Breakers, Cir-

CIRCUIT TESTING INSTRUMENTS-See In. struments, Electrical Circuit Testing

CIRCUITS, Printed Wiring

Method Mfg Corp 7447 W Wilson Ave Har-wood Heights III

CIRCULAR SAW BLADES-See Blades, Saw CIRCULAR SAWING MACHINES-See Ma-

chines, Sawing (Electric)

CLAD METAL STRIP STEEL-See Steel, Clad Metal (Strip)

CLAMPS, Battery Hold Down

CLAMPS, Battery Hold Down

Accurate Products Inc 135 N Spring St Indianapolis Ind

Berkson Products Inc 217 N Desplaines St Chicago 6 III

Bishman Mig. Co., Osseo, Minn.
Champ-Items 6191 Maple Ave St Louis 14 Mo Cuyahoga Spring Co 10252 Berea Rd Cleveland 2 Ohio

Houser Engrg & Mig Co 200 E Spring St Blufton Ind
Lightinn—See R. J. Loock & Co.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."

Murray Corp E Joppa Rd Towson 4 Md National—See Wheel Parts & Mig. Co.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y. "Sam-Sons."

Sam-Sons—See Sal Metal Products Co.
Silver Beauty—See Triple-A Specialty Co 2835 N Western Ave Chicago 18 III "Triple A" "Silver Beauty"
Wells Mig Corp 12 S Brooke St Fond du Lac Wis

Wells Mig Lac Wis Lac Wis Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National." Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

CLAMPS, Belt

Rhoads & Sons J E 2100 W 11th St Wil-mington 99 Del Webster Mig. Inc., Tiffin 16, Ohio.

CLAMPS, BODY BUILDERS' - See Clamps, Woodworkers'

CLAMPS, Hose

(For radiator hose or water heater) Accurate Products Inc 135 N Spring St Indianapolis Ind Aero-Seal—See Breeze Corps Inc Airline—See Ideal Corp American Stamping Co 310 E Burnham St Battle Creek Mich

Anchor Coupling Co 342 N 4th St Libertyville Arsco Mfg & Sales Co 451 10th Ave N Y 18 N Y

N Y
Attwood Brass Works Inc 303 Douglas St
N W Grand Rapids Mich
Autolock—See Ideal Corp
Breeze Corps Inc 700 Liberty Ave Union N J
"Aero-Seal"

Breeze Corps Inc 700 Liberty Ave Union N J
"Aero-Seal"
Brewer-Titenener Corp., 115 Pt. Watson St.
Cortland, N. Y.
Champ-liems Inc 6191 Maple Ave St Louis
14 Mo
Clancy, Inc., J. R. 1010 W. Belden Ave.,
Syracuse, N. Y. "Sure-Grip."
Corbin Hose Clamp Div American Hardware
Corp 102 Washington St New Britain Conn
Denis Mfg Co 46 Alvin St Springfield 4
Mass
Diamond G—See George K. Garrett Co.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio

Diamond G—See George K. Garrett Co.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Eastman Mfg Co 1440 N 24th St Manitowoc
Wis "Inter-Lock"
Eaton Mfg Co Reliance Div 25 Charles Ave
S E Massillon O
Everhot Products Co., 2001 W. Carroll Ave.,
Chicago 12, Ill. "Evertite." (Radiator;
"Everhot" heater.)
Evertite—See Everhot Products Co.
Garrett Co George K. Torresdale Ave at
Tolbut St Philadelphia 36 Pa
Gold Seal—See Murray Corp
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 35 Ohio
Hunt & Son, C. B., 1913 E. Pershing St.,
Salem, Ohio. "Quick as Wink."
Hy-Gear—See Ideal Corp
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
"Hy-Gear" "Ideal" "Snaplock" "Airline"
"Wraplock" "Autolock"
Ingersoll-Rand Co., 11 Broadway, New York,
N. Y.
Inter-Lock—See Eastman Mfg Co

N. Y.
Inter-Lock—See Eastman Mfg Co
Lightnin—See R. J. Loock & Co.
Loock & Co., R. J., 243 N. Gay St., Baltimore, Ind. "Lightnin."
Marman Div Aeroquip Corp 11214 Exposition Bivd Los Angeles 64 Calif

Moore & Co., Samuel, Mantua, Ohio, "Rub-Bub."

Bub."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
Murray Corp E Joppa Rd Towson 4 Md "Gold Seal" "Universal" "Wrap-Seal" & "Wire Grip"
Noc-Out-See Wittek Mg. Co.
Perfect Parts Inc 43 W 23rd St New York 10 N Y

Pollak Corp Joseph 75 Freeport St Boston 22 Mass

Mass Quick as Wink—See C. B. Hunt & Son. Rub-Eub—See Samuel Moore & Co. Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.

"Trutest."
Sherman Mfg. Co., H. B., 22 Barney St.,
Battle Creek, Mich.
Spanjock—See ideal Corp
Speed Clamps—See Tinnerman Products,

Speed Clamps—See Tilhierman Froducian.

Sure-Grip—See J. R. Clancy, Inc.

Sure-Trite—See Wittek Mig Co
Tinnerman Products Inc 8700 Brookpark Rd
Cleveland Ohio "Speed Clamps"

Trutest—See A Schrader's Son Div of Scovill Mig Co
Turner Mig. Co., 404 W. Superior St., Kokomo, Ind.
Universal—See Murray Corp
Victor Instrument Mig. Co., 33 W. 60th St.,
New York 23, N. Y.

Wickwire Spencer Steel Div. of Colorado
Fuel & Iron Corp 575 Madison Ave N Y 22
N Y (Heater)

Fuel & Iron C N Y (Heater) N Y (Heater)
Wire Grip—See Murray Corp.
Wittek Mfg Co 4305 W 24th Place Chicago
23 Ill "Noc-Out" "Sure-Tite"
Wraplock—See Ideal Corp
Wraplock—See Ideal Corp
Wrap-Seal—See Murray Corp

Parts, Windshield Wiper

CLEANERS, Air, Carburetor (Auto)

AC The Electronics Div of General Moto
1300 N Dort Highway Flint 2 Mich

CLAMPS. Machinists'

CLAMPS, Machinists'

Adjustable Clamp Co., 425 N. Ashland Ave., Chicago 22, Ill. "Jorgensen." "Pony."

Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill. Billings & Spencer Co., I Laurel St., Hartford 1. Conn. Co 1967 Waverly Ave Cincinnati Tool Co 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave"

Detroit Stamping Co 357 Midland Ave Detroit 3 Mien

Grand Specialities Co 3113 W Grand Ave Chicago 22, Ill.

Hargrave—See Cincinnati Tool Cc

J & S Tool Co 37 Dorsa Ave Livingston N Jorgensen—See Adjustable Clamp Co.

Fony—See Adjustable Clamp Co.

Rivett Lathe & Grinder Inc., 20 Riverview Rd., Brighton, Boston 35, Mass.

Samco—See Syrall Mfg Co.

Syrall Mfg Co., James L., 108 Parker Ave.

Foughkeepsie, N. Y.

Union Tool Co., 48 E. River St., Orange Mass.

Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

'illiams & Co., J. H., 400 Vulcan St., Buf-falo 7, N. Y.

CLAMPS, Muffler

Clamps Inc Div of Riker Mfg Inc 4901 Stick-ney Ave Toledo 12 Ohio

CLAMPS, Toggle

(For holding production articles in Jig or fixture)

Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill "Danly Kwik-Klamp"
De-Sta-Co—See Detroit Stamping Co.
Detroit Stamping Co., 357 Midland Ave., Detroit Stamping Co., 357 Midland Ave., Detroit S, Mich. "De-Sta-Co."
Knu-Sine—See Lapeer Mfg. Co.
Lapeer Mfg. Co., 3066 Davison Rd., Lapeer Mich. "Knu-Sine."
Wolverine Tool Co., 1480 E. Woodbridge St. Detroit 7, Mich.

CLAMPS, Welders'

Adjustable Clamp Co 425 N Ashland Ave Chicago 22 Ill "Jorgensen" Air Reduction Sales Co Socony-Mobil Bldg 150 E 42 St New York 17 N Y Aronson Machine Co Arcade N Y (Magnetic Chicago Boiler Co., 1985 Clybourn Ave., Chi-cago 14, Ill. "Red Head." Cincinnati Tool Co 1987 Waverly Ave Cin-cinnati 12 Ohio "Hargrave" (Oxy-acety-lene)

lene)
Detroit Stamping Co., 357 Midland Ave., Detroit 3. Mich. (Oxy-acetylene and arc.)
Grand Specialties Co., 3113 W. Grand Ave.,
Chicago 22, III.
Hargrave—See Cincinnati Tool Co.
Jorgensen—See Adjustable Clamp Co.

Littlestown Hardware & Foundry Charles St Littlestown Pa Peterson Mfg. Co., De Witt, Nebr. "Vise-Grip."

Grip."
Red Head—See Chicago Boller Co.
Samco—See Syrall Mfg Co
Syrall Mfg Co 511 N State St Syracuse 3
N Y "Samco" "Syrall"
Tweco Products Co Boston at Mosley Sta
Wichita 1 Kansas
Twistite Co 300 E Fulton St Grand Rapids
2 Mich
Vise-Grip—Sec Palerson Mfg Co.

z Mich Vise-Grip-Sec Peterson Mfg. Co. Williams & Co., J. H., 400 Vulcan St., Buf-falo 7, N. Y.

CLAMPS, Woodworkers'

Adjustable Clamp Co., 425 N. Ashland Ave., Chicago 22, III. "Pony," "Jorgensen." Barcy-Nicholson Co., 8100 Joy Kd., Detroit 4. Mich. "Lightning Grip." Billings & Spencer Co., 1 Laurel St., Hart-ford 1, Com., 800 Third St. Mendate, III. ford 1. Conn.
Black Bros. Co., 800 Third St., Mendota. III.
Cincinnati Tool Co. 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave"
Hargrave—See Cincinnati Tool Co.
Jorgensen—See Adjustable Clamp Co.
Lightning Grip—See Barcy-Nicholson Co.
Pony—See Adjustable Clamp Co.
Taylor Mg. Co., James L., 108 Parker Ave.
Poughkeepsie, N. Y.

LEANER PARTS, WI Parts, Windshield Wiper WINDSHIELD - See CLEANER

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Badger Mfg Corp 1501 W Polk St Chicago 7 Ill

Cyclone Filter Corp 4401 W North Ave Chicago 33 III Dollinger Corp 20 Centre Pk Rochester 3 N Y

Dollinger Corp 20 Centre Fr Rochester 2 St 2
"Staynew"

Donaldson Co., 666 Pelham Blvd., St. Paul 14,
Minn. "Donaldson Oil Washed."

Fram Corp Providence 16 R I

Lee Filter Corp 41 River Rd North Arlington N J

Purolator Products Inc Wayne Div Wayne

Mich Staynew-See Dollinger Corn United Specialties Co of Illinois 9705 Cot-tage Grove Ave., Chicago 28 Ill (Oil) Vortox Co., 121 S. Alexander Ave., Clare-mont, Cal. (Oil bath.)

CLEANERS, Air (Crankcase Breather)

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Fram Corp Providence 16 K I Purolator Products Inc Wayne Div Wayne

CLEANERS, Air (Machinery)

(For installation on stationary engines, compressors, etc.)

(See also Filters, Air [Machinery])
Air-Maze Corp 25000 Miles Rd Cleveland 28

Ohio
Aridifier—See Logan Engrg Co
CMD—See Chicago Mig & Dist Co
Chicago Mig & Distributing Co 1928 W 46th
St Chicago 911 "CMD"
Lincoln Engrg Co 4010 Goodfellow Blvd St
Louis 20 Mo
Logan Engrg Co 4901 W Lawrence Ave Chicago 30 III "Aridifier"
Norgren Co. C. A., 222 Santa Fe Drive, Denver 9, Colo,
Wilkerson Corp 1601 W Girard Ave Engle-

n Corp 1601 W Girard Ave Englewood Colo

Standard Factory Equipment on the Majority of Cars and Trucks Built Today

If it's AMERICAN—the part is right! Send Us Your Inquiries

AMERICAN STAMPING CO. BATTLE CREEK MICHIGAN

The state of the s GREASE & OIL CUPS DEEP DRAWING

SINCE 1911 A DEPENDABLE

Circle 219 on Inquiry Card for more data

CLEANERS. Metal

(Compound for cleaning and prepar-ing surfaces for painting; see also Solvents, Oil, Carbon and Grease Removing)

Removing)

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich Aidridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohlo "Beacon Brand"

Alka-Deox—See Enthone Inc Alkalume—See Enthone Inc Alkalume—See Fischer Industries Inc Alumiene—See Enthone Inc Aumon—See Enthone Inc Amchem Products Inc Brookside Ave & Reading RR Ambler Pa "Deoxidine" "Ridoine" "Duridine" & "Ridosoi"

Anti-Rust Corp., 315 E. 91st St., New York, N. Y. "Rozene."
Beacon Brand—See Aldridge Industrial Oils Inc

Beacon Brand—See Aldridge Industrial Oils Inc
Blast—See Du Bols Co
Bruce Products Corp 500 N West St Howell
Mich "Bruko"
Bruko—See Bruce Products Corp.
Buchanan Chemical Co., C. G., 4640 Baker
Rd., Cincinnati 12, Ohio. "Bu-Co."
Bu-Co—See Buchanan Chemical Co.
Calcine Chemical Co., P. O. Box 61, H. C.
Station, Jersey City, N. J. "Calsol."
Calsol—See Calcine Chemical Co.
Cerfak—See E. F. Houghton & Co.
Colonial Alloys Co Ridge Ave & Crawford St
Philadelphia 29 Pa "Saf-T-Chior"
Cooper Co., D. C., 1467 S. Michigan Ave.
Chicago 5. Ill. "D. C."
Cowles Chemical Co 7016 Euclid Ave Cleveland 3 Ohio

Cowles Chemi

land 3 Ohio

CrysCoat—See Oakite Products Inc

D. C.—See D. C. Cooper Co.

Dearborn Chemical Co Merchandise Mart

Plaza Chicago 54 Ill

Detrex Chemical Industries Inc Box 501

Detroit 32 Mich "Detrex" "Perm-A-Clor"

"Triad"

Penviding See

Detrex

"Triad"
Deoxidine—See Amchem Products Inc
Ditzler Color Div., Pittsburgh Plate Glass
Co., 8000 W. Chicago Ave., Detroit 4, Mich
Diversey Corp 1820 Roscoe St Chicago 13 III
Du Bois Co., 1120 W. Front St., Cincinnati 3,
Ohlo. "Dyna-Sprex." "Sprex AC." "Blast."
Duclean—See E. I. du Pont de Nemours &

Co. du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del. du Pont de Nemours & Co., E. I., Grasselli Chemical Dept., Wilmington 98, Del. "Duclean" (Alkaline and acid.) Duridine—See American Chemical Paint Co Dyna Sprex—See Du Bols Co. Enthol—See Enthone Inc Enthone Inc 442 Elm St New Haven 11 Conn "Alka-Deox" "Alumon" "Enthol" "Etchalume"

"Alka-Deca"
lume"
Echalume—See Enthone Inc
FO—See Fine Organics Inc
Farrelloy Co 1243 N 26th St Philadelphia 21
Pa "Farrellok"
Pa "Farrellok"
Inc 211 E 19th St N Y 3 N Y Fine Organics Inc 211 E 19th St N Y 3 N Y

icher Industries Inc Paddock Rd & N & W RR Cincinnati 29 Ohio "Metalene" & 'Aluminede'

"Aluminede"
Gerlach Co., E. A., P. O. Box 133, Eddington,
Bucks County, Pa. "Soax."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Graymilis Corp 2705 N Lincoln Ave Chicago 13 Ill
Hasson-Van Winkle-Munning Co Matawan

cago 14 Manson-Van Winkle-Munnus N J "Matawan" Homestead Valve Mfg Co Hypressure Jenny Div Narrows Run Rd Coraopolis Pa "Hypressure Jenny" Hooker Electrochemical Corp 27 Iroquois St Niagara Falls N Y "Virgo" "Hooker"

Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Houghton Clean" "Cerfak"

"Cerfak"

Hypressure Jenny—See Homestead Valve
Co., Hypressure Jenny Div.
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Industro"
Industro—See Industrial Chemical Products

Co
Co
Kelite Corp 1250 N Main St Los Angeles Calif
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Klem" "Minit Kote"
Krembs & Co 669 W Ohlo St Chicago 10 III
"Removene"
Krome Kote—See Wolfe-Kote Co
Lake Erie Mfg Co 192 Chicago St Buffalo
N Y "Lemco"
Lavo Co of America 1242 N 5th St Milwaukee 12 Wis "Mirifik"
Lemco—See Lake Erie Mfg, Co.
Lorco—See Lake Erie Mfg, Co.
Lord Chemical Co
Lord Chemical Co 2068 S Queen St York Pa
"Lorco"
Magnus Chemical Co., 185 South Ave., Gar-

Magnus Chemical Co., 185 South Ave., Garwood, N. J.

Magnuson Products Corp 50 Court St Brook-lyn N T "Permag"

Manufacturers Processing Co 1360 Hilton Rd Ferndale 20 Mich Matawan—See Hanson-Van Winkle-Munning

Metalene—See Fischer Industries Inc Metalgias Laboratories Inc 1813 Melrose St Madison Wis

Metso—See Philadelphia Quartz Co Minit Kote—See Klem Chenneals, Inc. Mirifik—See Lavo Co. of America. Mitchell-Bradford Chemical Co Wampus Lane Milford Conn

Lane Milford Conn
Nialk—See Hooker Electrochemical Co
Northwest Chemical Co 3310 Roselawn Ave
Detroit 4 Mich "Alkalume" "Northwest"
Oakite Products Inc 19 Rector St N Y N Y
"Oakite" & "CrysCoat"
Panther Chemical Co P O Box 711 Fort
Worth Tex

Worth Tex
Parco-See Parker Rust Proof Co.
Parker Rust Proof Co 2177 E
Ave Detroit 11 Mich "Parco" "Parcolene"
Penn Drake—See Pennsylvania Refining Co
Pennsalt Chemicals Corp 3 Penn Center
Philadelphia 2 Pa

rmuaceiphia 2 Pa Pennsylvania Refining Co., Butler Savings & Trust Bidg., Butler, Pa. "Penn Drake." Perm-A-Clor-See Detrex Chemical Indus-tries Inc

tries Inc
Permag—See Magnuson Products Corp
Philadelphia Quarts Co 1146 Public Ledger
Bldg Sixth & Chestnut Sts Philadelphia 6
Pa "Metso"
Ransohoff Inc N N Fifth St & Ford Blvd
Hamilton Ohlo (Ultrasonic)
Removene—See Krembs & Co
Ridoline—See Amchem Products Inc
Ridosol—See Ridosol—See

Ridoline—See Amchem Products Inc Ridosol—See Amchem Products Inc Rossaul Co., 170 Fifth Ave., New York 10. N. Y. "Rossaul No. 57." Rozene—See Anti-Rust Corp. Saf.-T-Chlor—See Colontal Alloys Co Soax—See E. A. Gerlach Co. Sprex AC—See Du Bois Co Sun Oic Co 1508 Walnut St Philadelphia 3

Sun Oil Co 1668 Wainut St Philadelphia 1
Pa "Sunoco Spirits"
Triad—See Detroit Chemical Industries Inc.
Triad—See Detroit Chemical Industries Inc.
Los Angeles Calif
Virgo—See Hooker Electrochemical Co
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis
"Krowne Kote"

"Krowne Kote"

CLIPS, Electrical Test (Industrial)

Wyandotte Chemi Wyandotte Mich emicals Corp J B Ford Div

CLEANERS, OIL—See Filters, Fuel (For Diesel Engines); also Filters, Cutting Oil: also Filters, Oil (For Attaching to Engines)

CLEANERS, Vacuum (Industrial)

LEANE.RS, Vacuum (Industriai)
Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Breuer Electric Mfg. Co., 5100 Ravenswood
Ave., Chleago do III "Tornado."
Cadillac—See Clements Mfg Co
Choldun Mfg Corp 331 East St New Haven
Conn "Power-Vac"
Clarke Sanding Machine Co 30 E Clay Ave
Yuskegon Mich

Muskegon Mich
Clements Mfg Co 6650 S Narragansett Ave
Chicago 28 III "Cadillac"
Doyle Vacuum Cleaner Co., 225 Stevens St.
SW Grand Ranifs 2 Mich "Dovle Vac-if"
Empire Chemical Products Co 16 Longworth
St Newark 2 N J "Nu-Vac" "Stubby"
Hild Floor Machine Co 1217 W Washington
Elvd Chicago 7 III
deal Industrias, Inc., 1614 Park Ave.

Ideal Industries, Inc., 1014 Park Ave., Sycamore. Ill

Invincible Vacuum Cleaner Mfg. Co., 14th & Davis Sta., Dover, Ohlo.
Kent Co 338 Canal St Rome N Y

Martindale Electric Co., 1340 Hird Ave., Cleveland 7. Ohio. Multi-Clean Products Inc 2277 Ford Parkway St Paul 16 Minn

St Faul 16 Minn
National Super Service Co., 1946 N. 13th St.,
Toledo, Ohio. "Super."
Nu-Vac-See Empire Chemical Products Co
Power-Vac-See Choldun Mfg Corp
Pullman Vacuum Cleaner Corp 25 Buick St
Boston 15 Mass

Spencer Turbine Co., 486 New Park Ave., Hartford 6, Conn.

Hartford 6, Conn. Stubby—See Empire Chemical Products Co Super—See National Super Service Co. Thompson & Sons Inc 8130 W 47th St Lyons Ill "Thompson Mobile-Vac"

Tornado-See Breuer Electric Mfg. Co. CLEANERS, WINDSHIELD — See Wipers, Windshield

CLEATS, Fibre Wiring

Continental-Diamond Fibre Corp Newark 10 Del "Diamond" Diamond-See Continental-Diamond Fibre

National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. Wilmington Fibre Specialty Co New Castle Del

CLEVIS PINS-See Pins, Yoke CLIP BOLTS-See Botts, Clip

CLIPPERS, Bolt and Rivet (Hand Power)

(Hand Power)

(Hand Nower)

(Handklip—See H. K. Porter, Inc.

Hypowa—See H. K. Porter, Inc.

LIPS, BATTERY HOLD DOWN — See Clamps, Battery Hold Down CLIPS.

CLIPS, Cable and Tubing (Auto)

Akron-Selle Co., High & Chestnut Sts.,

Akron 11, Ohio. rco—See Automotive Rubber Co. 12584 Bee Automotive Rubber Co.
Automotive Rubber Co.
Los Automotive Rubber Co.
Automotive Rubber Co.
Los Automotive Rubber Co.
Barcy-Nicholson Co. 8100 Joy Rd Detroit 4

Mich Mich Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. Cuyahoga Spring Co 10252 Berea Rd Cleve-

COPURING STATE CO 10252 Berea Rd Cieve-land 2 Ohio Gits Bros Mfg Co 1846 S Kilborn Ave Chicago 22 III Hill Nut Co., 2620 W. Flournoy St., Chicago

12. Ill.
 Kickhaefer Mfg Co 903 S Second St Mil-waukee 4 Wls
 Prestole Corp 1351 Miami St Toledo 5 Ohio
 United-Carr Fastener Corp., 31 Ames St., Cambridge 12, Mass.
 Whitehead Stamping Co., 1661 W. Lafayette Bivd., Detroit 16, Mich.

Cortical Test (Industrial)

(For testing electrical circuits at any point without removing insulation from wires or disconnecting)

Frankel Connector 27 Veetry St N Y 13 N Y Mueller Electric Co 1857A 31st St Cleveland 14 Ohio "Universal"

Universal—See Mueller Electric Co. Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

CLIPS, Fuse (Industrial)

Hill Nut Co., 2620 W. Flournoy St., Chicago al Industries Inc 1014 Park Ave Sycamore Zierick Mfg. Corp., Beechwood & Rockdale Ave., New Rochelle, N. T.

(See also Forgings)

Accurate Products Inc 135 N Spring St In-dianapolis Ind

Acturate Fraudes and January Acturate Acturate Fraudes and January Indianapolis Ind
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St.
Louis, Mo.
Cuyahoga Spring Co 10252 Berea Rd Cleveland 2 Ohio
Davis Auto Equipment Co 119 N 3rd St.
Reading Pa
Handy Button Machine Co 2255 S Rockwell
St Chicago 8 Ill (Upholstery)
Hendrix—See Service Spring Co.
Highland Machine Co 3215 Superior Ave.
Cleveland 14 Ohio

Highland Machine Co 3215 Superior Ave Cleveland 14 Ohlo Houser Engng. & Mfg. Co., Bluffton, Ind. Prestole Corp 1351 Miami St Toledo 5 Ohlo Queen City Forging Co., Tennyson & Du-mont Sts., Cincinnati 26, Ohlo. Service Spring Co Box 638 Indianapolis 6 Ind "Hendrix"

"Hendrix"
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill
Triangle Auto Spring Corp Maloney Rd &
B & O RR Dubois Pa
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis

CLIPS, TRIMMERS—See Fasteners, Molding and Trim

CLOCKS (Auto)

Auto Clock Div Hamilton Watch Co Lan-caster Pa "Hamilton"

Borg Products Div., George W. Borg Corp.,
902 Wisconsin St., Delavan, Wis. (Electric and hand wound.)

Elgin National Watch Co 107 National St

General Electric Co Clock & Timer Dept Ashland Mass "Motochron" Hamilton—See Auto Clock Div Hamilton Watch Co

Watch Co Lux Clock Mfg Co 95 Johnson St Waterbury 20 Conn (Electric and hand wound) Motochron—See General Electric Co

Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass Westclox Div General Time Corp La Salle Ili (Electric and spring wound)

CLOSURES, ADJUSTABLE (Plug Type)-See Plugs, Testing (Adjustable)

CLOTH. Abrasive

(See also Paper, Abrasive)

(See also Paper, Abrasive)
Adalox—See Behr-Manning Corp.
Aloxite—Ses Carborundum Co.
Behr-Manning Corp 4457 Howe St Troy N Y
"Adalox" "Disker" "Durite" "Metalite"
"Resinall" "Resinized" "Screen-Bak"
"Speed-Wet" (Also garnet cloth)
Carborundum Co., Buffaio Ave., Niagara
Falls, N. Y. "Aloxite."
Clover Mfg Co 327 Main St Norwalk Conn
Crystal Bay—See Minnesota Mining & Mfg
Co.

Crystal Bay—See animose animose Crystal Bay—See Behr-Manning Corp.
Metalite—See Behr-Manning Corp.
Metalite—See Behr-Manning Corp.
Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
Minnesota Minning & Mig Co 900 Bush Ave St. Paul 6 Minn "3-M" "Crystal Bay" "Three-M-ite" "Wetordry"
Resinall—See Behr-Manning Corp.
Resinized—See Behr-Manning Corp.
Screen-Bak—See Behr-Manning Corp.
Screen-Bak—See Behr-Manning Corp.
3-M—See Minnesota Mining & Mig Co.
Three-M-Ite—See Minnesota Mining & Mig. Co.

Wetordry-See Minnesota Mining & Mfg Co CLOTH, COA Coated Cloth COATED FABRIC - See Fabrics

CLOTH, PLASTIC-See Fabric, Plastic

CLOTH, SEAT COVER—See Fabrics, Seat Cover; also Fabric, Plastic (Upholatery and Seat Cover)

CLOTH, UPHOLSTERY—See Fabric, Coated Cloth (For Seat Covers, Tops and Uphol-stery, etc.); also Fabrics, Upholstery

CLOTH, Wire

(For use in strainers, horn screen, etc.)

CLOTH, Wire

(For use in strainers, horn screen, etc.)
Audubon Wire Cloth Corp., Richmond St. & Castor Ave., Philadelphia 24, Pa.
Buffalo Wire Works Co., 506 Terrace, Buffalo 2, N. Y.
Cambridge Wire Cloth Co Cambridge Md
Chase Brass & Copper Co., 236 Grand St.,
Waterbury 20, Conn. (Brass and copper.)
Cleveland Wire Cloth & Mfg Co 3573 E 78th
St Cleveland 5 Ohio (Steel-aluminum,
Monel metal, silver, stainless steel, etc)
Cyclone Fence Dept American Steel & Wire
Div United States Steel Corp P O Box 260
Waukegan Ili "Red Tag"
Darby & Son, Edw. J., 1517 Germantown
Ave., Philadelphia 21, Pn "Pennsvlvania."
Ferguson Perforating & Wire Co 130 Ernest
St Providence 5 R 1
Jelliff Mfg. Corp., C. O., Pequot Rd., Southport, Conn.
Michigan Wire Cloth Co 2100 Howard St
Detroit 16 Mich
Newark Wire Cloth Co., 251 Verona Ave.,
Newark 4, N. J.
Pennsylvania—See Edw. J. Darby & Son.
Red Tag—See Cyclone Fence Dept
Reynolds Wire Div National-Standard Co 719
E 2nd St Dixon III (Steel brass bronze
copper aluminum nickel stainless steel
monel tinned and galvanized)
Rolock, Inc., 1350 Kings Highway, Fairfield,
Conn.
Smith Co., John P., 423 Chapel St., New
Haven 7, Conn.
Tyler Co., W. S., 3615 Superior Ave., Cleveland 14, Ohio.

CLOTH CUTTING MACHINES—See Ma-

CLOTH CUTTING MA MACHINES - See Ma-

CLOTH DRILLING MACHINES - See Ma-chines, Fabric Drilling

CLUTCH PARTS—See Bearings, Clutch Throwout; Controls, Clutch; Corks, Brake and Clutch Insert; Discs, Clutch; Facings, Clutch; Parts, Clutch; Plates, Clutch (Pres-sure); also Shafts, Transmission & Clutch

CLUTCHES, Auto, Truck and Bus

Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill Auburn-See Dana Corp

B & B—See Borg & Beck Div., Borg-Warner Corp.
S. Menard Ave., Chicago 38, Ill. "B. & B."
Dana Corp 4100 Bennett Rd Toledo 1 Ohio
"Auburn" & "Spicer Brown-Lipe" (Truck

ynamatic-See Eaton Mfg Co Dynamatic

Div

Eaton Mfg Co Dynamatic Div 3307 14th Ave
Kenosha Wis "Dynamatic" (Eddy-current)
Inland Mfg, Div, General Motors Corp., 2727
Inland Ave., Dayton 1, Ohlo,
Lipe-Rollway Corp 806 Emerson Ave Syracuse 4 N Y (Heavy duty)

cuse 4 N Y (Heavy duty)
Long Mfg. Div. Borg-Warner Corp., 12501
Dequindre St., Detroit, Mich.
Morlife-See Rockford Clutch Div
Rockford Clutch Div Borg-Warner Corp 1319
18th Ave Rockford Ill "Morlife"
Spicer Brown-Lipe—See Dana Corp

CLUTCHES, Auto (Fan and Accessory Drive)

Schwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind Warner Electric Brake & Clutch Co Beloit Wis

CLUTCHES, Industrial

CLUTCHES, Industrial

Al-Fin Div Fairchild Engine & Airplane
Corp Deer Park L I N Y (Semi-finished
eddy current)

Auburn—See Dana Corp
Ausco—See Auto Specialties Mfg Co
Automatic Steel Products, Inc., Mercury
Clutch Div., 1201 Camden Ave., S.W., Canton 6, Ohlo. "Mercury."

Auto Specialties Mfg Co 643 Graves St St
Joseph Mich "Ausco"
Ball-Lok—See V-Belt Clutch Co.
Brown Engineering Co 131 N 3rd St Reading
Pa "Mule Pull"
C-H—See Cutler-Hammer, Inc.
Cleveland Punch & Shear Works Co., 3917 St,
Clair Ave., Cleveland, Ohlo.
Cutler-Hammer, Inc., 362 N, 12th St., Milwaukee 1, Wis. "C-H." (Magnetic.)
Dana Corp 4100 Bennett Rd Toledo 1 Ohlo
"Auburn" & "Spicer-Brown-Lipe"
Dodge Mfg Corn., 566 Main St., Mishawaka,
Ind. "Rolling Strip"
Dynamatic—See Eaton Mfg Co
Eston Mfg Co Dynamatic
Div
Dyna-Torq—See Eaton Mfg Co

Div
Dyna-Torq—See Eaton Mfg Co
Eaton Mfg Co Dynamatic Div 3307 14th Ave
Kenosha Wis "Dynamatic" (Eddy-current)
Waukesha, Wis (Air, mechanical and hydraulic; "Dyna-Torq" magnetic friction)
Federal Seal & Gear Corp 522 N Krueger St
Kendallville Ind "Kendallmatic"
Hilliard Corp 113 W 4th St Elmira N Y
Industrial Clutch Corp. 515 Frederick St.,
Waukesha, Wis. (Air, mechanical and
hydraulic.)

Waukesha, Wis. (Air, mechanical and hydraulic.) Johnson Machine Co Carlyle Main St Man-chester Conn "Maxitorq" Kendallmatic—See Federal Seal & Gear

Kendalmatic—See Federal Seal & Gear Corp
Link-Belt Co Prudential Plaza Chicago 1 Iii
Magneclutches—See Vickers Inc
Maxitorq—See Carlyle Johnson Machine Co
Mercury—See Automatic Steel Products, Inc.,
Mercury Clutch Div.
Metalwash Machinery Corp 901 North Ave
Elizabeth 4 N J Co. 240 W. Fifth St. Win-

Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J Minster Machine Co 240 W Fifth St Minster Machine Co 240 W Fifth St Minster Machine Co 240 W Fifth St Minster Ohlo Mule-Pull—See Brown Engineering Co. Pullmore—See Rockford Clutch Div., Borg-Warner Corp. Rockford Clutch Div., Borg-Warner Corp. 1319 18th Ave., Rockford, III. "Rockford." (Over-center; "Pullmore" sole distributors, Morse Chain Co Ithaca N Y) Rolling Strip—See Dodge Mfg Corp Salsbury Corp., 1161 E. Florence Ave., Los Angeles 1. Calif. Spicer-Brown-Lipe—See Dana Corp Stearns Electric Corp 120 N Broadway Milwaukee 2 Wis (Electro-magnetic) Twin Disc Clutch Co., 1328 Racine St., Racine, Wis. V-Belt Clutch Co 418 N Western Ave Los Angeles 4 Calif "Ball-Lok" Vickers Inc Electric Products Div 1815 Locust St St Louis 3 Mo "Magneclutches" (Magnetic particle) Warner Electric Brake & Clutch Co Beloit Wis (Electric; also clutch-brake)

CLUTCHES, Overrunning

Formsprag Co 23601 Hoover Rd Warren Mich Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.

N. Y. Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood III (Sprag type)

metal parts from corrosion)

Acra Seal—See Radiator Specialty Co
Allied Research Products Inc 4004 E Monument St Baltimore 5 Md "Irilac"

Amchem Products Inc Brookside Ave &
Reading R R Ambler Pa ("Granodine
"Thermoli-Granodine" "Duridine" for ferrous metal)

"Thermoil-Granodine" "Duridine" for ferrous metal)
Arco—See Automotive Rubber Co.
Auburn Button Works Inc 48 Canoga St Auburn Ny Rubber Co 12584 Beech Rd Detroit 39 Mich "Arco"
Cocoon—See R. M. Hollingshead Corp.
Daubert Chemical Co 323 N Michigan Ave Chicago I ili
Dennis Chemical Co 2701 Papin St St Louis 3 Mo "Perma-Skin"
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich (Phosphate types)
Duridine—See Amchem Products Inc Granodine—See Amchem Products Inc Hollingshead Corp R W 840 Cooper St Camden N J "Cocoon"
Industrial Metal Protectives Inc 401 Homestead Ave Dayton 8 Ohio "Zincilate" Irilac—See Allied Research Products Inc Kano Laboratories 1000 S Thompson Lane Nashville II Tenn "Kano Prox"
Krylon Inc Ford & Washington Sts Norristown Pa "Krylon Rust Veto"
Lion Oil Co Lion Oil Bidg El Dorado Ark "Nokorode"
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3M"

"Nokorode"
Minnesota Mining & Mfg Co 960 Bush Ave
St Paul 6 Minn "3M"
Nokorode—See Llon Oil Co
Oakite Products Inc 19 Rector St N Y N Y
Pennsalt Chemicals Corp 3 Penn Center
Philadelphia 2 Pa "Thick-Coat"
Perma-Skin—See Dennis Chemical Co
Polymer Corp 2120 Fairmont Ave Reading
Pa "Whirlclad"

Polymer Colp.

Pa "Whirlclad"
Radiator Specialty Co 1400 W Independence
Blyd Charlotte I N C "Acra Seal"
Regal Air Corp 500 5th Ave New York 18
N Y "Re Glo"

N Y "Re Glo"

Re Glo—See Regal Air Corp.

Servwell Products Co 6513 Euclid Ave Cleveland 3 Ohio

Skybryte Co 3125 Parkins Ave Cleveland 14

Ohio "Steelbrite"

Steelbrite—See Skybryte Co

Thermoil-Granodine—See Amchem Products

Inc.
Thick-Coat—See Pennsalt Chemicals Corp
2M—See Minnesota Mining & Mfg Co
Whirlelad—See Polymer Corp
Wirco Chemical Co., 75 E. Wacker Drive

Chicago 1. Ill -See Industrial Metal Protectives

COATINGS. UNDERBODY - See Insulation, Heat and Sound (Liquid)

COAT RAILS-See Rails, Robe or Coat

COBALT, CHROMIUM & TUNGSTEN CUT-TING ALLOYS—See Alloys, Cutting

COCKS, Pet (Drain, Gasoline, Air, etc.) (See also Plugs, Crankcase Drain; also Valves, Air Tank Drain (Automatic)

(See also Plugs, Crankcase Drain; also Valves, Air Tank Drain (Automatic)
Acme Air Appliance Co 205 Newman St Hackensack N J (Drain)
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich "Kantleak"
Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio (Drain)
Commonwealth Brass Corp 5835 Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich (Drain)
Consolidated Brass Co 2019 N Tryon Ave Charlotte 6 NC
Dole Valve Co 6201 Oakton St Morton Grove III

Dole Ill

Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio

cinnati 2 Ohio Edelmann & Co., E., 2332 Logan Bivd., Chi-cago 47, Ill. Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N V Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill.

Chicago 31 III
Kantleak—See Anderson Brass Co
Lightnin—See R J Loock & Co
Lincoln Brass Works, 2067 12th St., Detroit
16. Mich.
Loock & Co R J 243 N Gay St Baltimore Md
"Lightnin"

"Lightnin"
Lunkenheimer Co Beekman St & Waverly
Ave Cincinnati 14 Ohio
Naco—See R F Nauman Mfg Corp
Nauman Mfg Corp R F 525 Michigan Ave
Buffalo 3 N Y "Naco" (For Chevrolet Pontiac cars etc)
Republic Gear Co 2197 Beaufort Ave Detroit
7 Mich

COCKS, Pet (Drain, Gasoline, Air, etc.) -continued

Velvac Inc 3534 W Pierce St Milwaukee 15

Wis Weatherhead Co Ft Wayne Div 128 W Washington Blyd Ft Wayne Ind COCKS, RESERVE FUEL—See Valves, T Way, Three-Way and Four-Way (Tank)

COILING MACHINES, SPRING - See Ma-chines, Coiling (Spring)

COIL LOCKS-See Locks, Ignition

COIL PARTS-See Parts, Magneto, Coil and

OIL STOCK STRAIG Straighteners, Coil Stock STRAIGHTENERS - See

COILS, Field

Armature Co., 15 Fordham Road, Arrow Armature Co., 15 Fordham Road, Boston 34 Mass General Armature & Mfg Co Box 370 Lock Haven Pa International Products & Mfg Co 1452 S Michigan Ave Chicago 5 III Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"

lapco—See Machined Parts Corp referred Electric & Wire Co Bush Termi-nal Bidg No 8 Brooklyn 32 NY

COILS, IGNITION

(See also Systems, Ignition [Complete]

Aerovox Corp Crowley Div 1 Central Ave West Orange N J "Croloy" American Bosch Div American Bosch Arma Corp 364 Main St Springfield 7 Mass American Motor Products Co Fond du Lac rican Moto

Wis "Ampco"
Ampco—See American Motor Products Co
Andrew Parts Mfg Co 32-70 31st Long
Island City 6 N Y
Auto-Lite—See Electric Auto-Lite Co
Blue Streak—See Standard Motor Products

Croloy—See Aerovox Corp Crowiey Div Crumbliss Mfg Co 3830 N Podlin I Franklin Park III

Franklin Park III

D S M Electric Co 6209 John Lodge Expressway Detroit 2 Mich
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electric Auto-Lite Co Toledo Ohio "AutoLite"
F & B Mfg Co 4248 W Chicago Ave Chicago
51 III "Filko"
Filko—See F & B Mfg Co
Freedco Products Inc 36-08 33rd St Long
Island City 6 N Y
Island City 6 N Y
GP—See Guaranteed Parts Co

Island City 6 N Y GP—See Guaranteed Parts Co Guaranteed Parts Co Seneca Falls N Y

"GP"
Holley Carburetor Co 11955 E Nine Mile Rd
Van Dyke Mich
K-W-See Stan-Test Corp
Kem Mg Co 20-21 Wagaraw Rd Fairlawn
N J Prefer Me Co (200 Re)

Kem Mfg Co 20-21 Wagaraw Rd Fairlawn N J
M D Parts Mfg Co 4395 E Olympic Blvd Los Angeles Calif Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich Mapco-See Machined Parts Corp National—See Wheel Parts & Mfg Co National Igntion Mfg Co 521 W 23rd St New York 11 N Y "Nimco"
New York Coll Co 42 Second Ave Phoenix-ville Pa "Nyco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 III
Nimco-See National Ignition Mfg Co Nyco-See New York Coll Co Ohio Mfg Co 924 S Theresa Ave St Louis 3 Mo

Mo
P. & D. Mfg. Co. 1902. Steinway. St. Long. Island. City. L. I. N. Y.
P. P. P.—See Preferred Electric. & Wire Co.
Paragon Products Corp. 140. Astor. St. Newark. 5. N. J. "Vulcan" (Sole distributors. Vulcan Motor. Products. Inc. 1060. Broad. St. Newark. 2. N. J.)
Preferred Electric. & Wire. Co. Bush. Terminal. Bldg. No. 8. Brooklyn. 32. N. Y. "PPP"
R. B.-M. Div. Essex. Wire. Corp. Chestnut. & Hanna. Sts. Logansport. Ind.
Shurhit. Prorducts. Inc. 845. S. Market. St. Waukesan. III.

Acgan III orensen Mfg Co P 32-31 57th St Woodside 77 N Y 17 Northern Bivd Long sland City N Y "Blue Streak" "Standard"

Stan-Test Corn 4630 W Harrison St Chi-cago 44 Ill "K-W" Surer Go—See Wells Mfg Corp Switches Inc 317 E Ontario St Chicago 11 Ill

Tasco Products Div of Guaranteed Parts
Co Seneca Falls N Y
Tungsten Contact Mfg Co 7311 Cottage Ave
North Bergen N J
Valley Forge Products Co 370 19th St Brooklyn 15 N Y

lyn 15 N Y Vulcan—See Paragon Products Corp Wells Mfg Corp 12 S Brooke St Fond du Lac Wis "Wells" "Super Go" Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National" Wico Electric Co 42 Phelon Ave West Springfield Mass

COIL TESTERS—See Instruments, Electrical COMPENSATORS, Motor Starting (In-

COIL WINDINGS, IGNITION-See Windings,

COLORS (Paint Pigment)

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich

Detroit 11 Mich
Ditz-Lac—See Ditzler Color Div Pittsburgh
Flate Glass Co
Ditzler Color Div Pittsburgh Plate Glass
Co 8000 W Chicago Ave Detroit 4 Mich
"Ditz-Lac"
Duco—See E I du Pont de Nemours & Co
Dulux—See E I du Pont de Nemours & Co
du Pont de Nemours & Co E I Finishes Div
Refinish Sales Wilmington 98 Del "Duco"
& "Dulux"

è "Dulux" Goodrich Chemical Co B F 3135 Euclid Ave Cleveland 15 Ohio "Harman" Harman—See B F Goodrich Chemical Co Harshaw Chemical Co 1945 E 97th St Cleveland 6 Ohio

Martin-Senour Co 2500 Senour Ave Chicago 8 Ill berwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

COMBUSTION ANALYZERS-See Analyzers,

COMMUTATORS, Electric Motor

Cameron Electrical Mfg Co 205 Main St Ansonia Conn Electric Materials Co Clay & Washington

sonia Conn
Electric Materials Co Clay & Washington
Sts North East Pa
Homer—See Toledo Commutator Co
International Products & Mfg Co 1452 S
Michigan Ave Chicago 5 III
Simmons Mfg Co Ashland Ohio (For Ford
and Chevrolet cars)
Spring Div Borg-Warner Corp Madison St
& 25th Ave Bellwood III (Small)
Toledo Commutator Co 1101 S Chestnut St
Owosso Mich "Homer" "Toledo"

COMPARATORS

Air-O-Limit.—See Pratt & Whitney Co American Optical Co., 14 Mechanic St., Southbridge, Mass. (Optical.) Ames Co., B. C., 12 Ames St., Waltham 54

ss. ch & Lomb Optical Co 141 St Paul St chester 2 N Y n & Sharpe Mfg Co 235 Promenade St vidence 1 R I

Rochester 2 N 7 grown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 ohio "Indi-Ac"
Comparitol—See George Scherr Co.
Comtor Co 47 Farwell St Waitham Mass "Comtorplug" (Internal diameter)
Covel Mfg Co Graham Ave Benton Harbor Mich (Optical)
Dow Mechanical Corp Thompsonville Conn "Dow-Gage" "Tacomps"
Electrolimit—See Pratt & Whitney Co
Federal Products Corp., 1144 Eddy St., Providence 1, R. I.
Freeland Gage Co 9940 Freeland Ave De-

dence 1, R. I.
Freeland Gage Co 9940 Freeland Ave Detroit 27 Mich (Air)
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn (Thread)
Hodex Machinery Co 4907 Foley Rd Cincinnati
b3 Ohio "Subbo"
Liditace-See Cleveland Instrument Co

Index Machinery Co 4907 Foley Rd Chiches 52 Ohio "Subibo"
Indi-Ac—See Cleveland Instrument Co Jones & Lamson Machine Co 523 Clinton St., Springfield, Vt. (Optical.)
Merz Engineering Co., 200 S. Harding St., Indianapolis 7, Ind.
Metron Instrument Co 432 Lincoln St Denver 3 Colo (Electric)
Michigan Tool Co 7171 McNichols Rd E Detroit 12 Mich (Gear)
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Air-O-Limit" "Electrolimit" "Tri-Roll"
RCA Arlin—See Radio Corp of America

nmit "Tri-Koll" CA Arlin-See Radio Corp of America adio Corp of America Detroit Industrial Products 13541 Auburn Ave Detroit 23 Mich "RCA Arlin"

Scherr Co., George, 200 Lafayette St., New York 12, N. Y. "Comparitol," "Wilder." Shameld Corp., 721 Springfield St., Dayton 1. Ohio.

Standard Gage Co Poughkeepsie N Y
Subibo—See Index Machinery Co.
Swedish Gage Co of America 10641 Haggerty
Ave Dearborn 1 Mich
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket Rd "Veracheck"

Tri-Roll—See Pratt & Whitney Co Verachek—See Taft-Peirce Mfg Co Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa (Weld energy) -See George Scherr Co.

dustrial)

E C & M—See Electric Controller & Mfg Co Electric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C

& MTG.E—See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

COMPOUNDS, ANTI-FREEZE - See Anti-

COMPOUNDS, Battery Sealing

Mitchell-Rand Mfg Corp 51 Murray St New York N Y "Rubberseal" Rubberseal—See Mitchell-Rand Mfg Corp

COMPOUNDS, Brake Bonding

Miley Co., L. J., 18 S. Sangamon St., Chi-Permafuse Corp 675 Main St Westbury N Y Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn

aybestos-Manhattan Inc Equipment Sales Div Stratford Conn "R/M"

COMPOUNDS, Buffing and Polishing (Metal)

Bruce Products Corp 500 N West St Howell Mich "Tri-Vac" "Li-Vac" "Sta-Vac" Brush Fluish—See Frederic B. Stevens, Inc. Buckingham Products Co., 14100 Fullerton

Buckingham Products Co., 14100 Fullerton Ave., Detroit 27, Mich.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago S. Ill. "D. C."
Cutmore—See Frederic B. Stevens, Inc.
D. C.—See D. C. Cooper Co.
Dixon Inc William 32 E Kinney St Newark
1 N J

1 N J
Engis Equipment Co., 431 S. Dearborn St.,
Chicago 15, Ill. "Hyprez Diamond."
Fast Finish—See Frederic B. Stevens, Inc.
4A—See Harrison & Co.
Gaylime—See Matchiess Metal Polish Co
Goodison Mfg Co P O Box 128 Rochester
Mich.

Mich
Greasless—See Frederic B Stevens Inc
H-VW-M—See Hanson-Van Winkle-Munning Co
Hanson-Van Winkle-Munning Co Matawan
N J "H-VW-M"
Harrison & Co., P. O. Box 457, Haverhili
Mass. "4A."

Mass, "4A."

Ii-Lustre—See Frederic B. Stevens, Inc.

Iyprez Dlamond—See Engls Equipment Co.

Cocour Co., 4800 S. St. Louis Ave., Chicago Hi-Lustre-

Liquabrake"

Learok—See Bruce Products Corp.

Li-Vac—See Bruce Products Corp.

Lorco—See Lord Chemical Co
Lord Chemical Co 2068 S Queen St York Pa
"Lorco"

Marvel—See Frederic B. Stevens, Inc.
Matchless Metal Pollsh Co., 840 W. 49th
Piace, Chicaro, Ill. "Matchless," "Nikolime," "Gaylime," "White Diamond."

Nikolirie—See Matchless Metal Pollsh Co.
Park Chemical Co 8074 Military Ave Detroit
4 Mich "Park-O" (Polishing)
Plasticolor—See Frederick B. Stevens, Inc.
Plasticut—See Prederick B. Stevens, Inc.
Smooth Glaze—See Swavely Chemical &
Varnish Works.

Plasticut—See Frederick B. Stevens, Inc.
Smooth Glaze—See Swavely Chemical &
Varnish Works.
Sta-Vac—See Bruce Products Corp.
Stevens Inc Frederic B 1800 18th St Detroit
16 Mich "Marvel" "Cutmore" "Hi-Lustre"
"Fast Finish" "White Rose" "Plasticut" "Plasticolor" "Tampico" "Greaseless" "Brush Pinish"
Sure-Rite—See Warehouse Dist Co
Swavely Chemical & Varnish Works \$31
Page St Flint 5 Mich "Smooth Glaze"
Tampico—See Frederic B. Stevens Inc
Tri-Vac—See Bruce Products Corp
Warehouse Distributing Co 2810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
White Diamond—See Matchless Metal Polish Co
White Rose—See Frederic B Stevens Inc

COMPOUNDS, Carbon Penetration Preventing

Case Hardening Service Co., P.O. Box 4586 Cleveland 24, Ohio "Non-Case."

COMPOUNDS, Case Hardening

Aerocarb—See American Cyanamid Co.
Aerocase—See American Cyanamid Co.
American Cyanamid Co Industrial Chemicals
Div Metal Chemicals Section 30 Rockefeller
Flaza New York 20 N Y "Aerocarb"
"Aerocase"

"Aerocase"

Bathite—See Case Hardening Service Co.
Bohnite—See Case Hardening Service Co
Buchanan Chemical Co., C. G., 4640 Bake
Rd., Cincinnati 12, Ohio. "Ferro-Case."

Case Hardening Service Co P O Box 45:
Cleveland 24, Ohio "Bathite" "Bohnite Case Hard Cleveland "Caseite"

"Caseite" Caseite Barne Barne Coranega—See E. I. du Pont de Nemours & Co., Electrochemicals Dept. Cyanoprik—See E I du Pont de Nemours & Co. Electrochemicals Dept. Cyanofake—See E. I. du Pont de Nemours & Co., Electrochemicals Dept. Cyanogran—See E. I. du Pont de Nemours & Co., Electrochemicals Dept. du Pont de Nemours & Co., Electrochemicals Dept. du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 'S, Del. 'Cyanofake,' 'Cyanogga,' 'Cyanogran,' 'Cyanoprik' (Sodium cyanide)

du Font de Nemours & Co., E. I., Electro-chemicals Dept., Wilmington 98, Del. "Cyanofiake," "Cyanogg." "Cyanogran," "Cyanofiake," "Cyanogran," "Cyanoprik" (Sodium cyanide) Ferro-Case—See Buchanan Chemical Co. Holden Co. F 14341 Schaefer Highway Detroit 27 Mich

27 Mich Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Pearlite," "Quick-light," 'Perliton." (Carburizing.) Kasenit Co 3 King St Mahwah N J Klean Heat—See Park Chemical Co. Kwick Kase—See Park Chemical Co. Park Chemical Co. 8074 Military Ave Detroit 4 Mich "Woodside's" "Kwick Kase" "Koen Heat"

Park Chemical Co Sura annual

4 Mich "Woodside's" "Kwick Kase"

"Klean Heat"
Pearlite—See E. F. Houghton & Co.
Perliton—See E. F. Houghton & Co.
Quicklight—See E. F. Houghton & Co.
Steco—Steel Treating Equipment Co.
Steel Treating Equipment Co. 9300 Southern
Ave Dearborn Mich "Steco" & "Thermo"
Thermo—See Steel Treating Equipment Co.
Woodside's—See Park Chemical Co.

COMPOUNDS, Core

Buckingham Products Co 14100 Fullerton Ave Detroit 27 Mich Delta Oil Products Co Teutonia Ave & Mill Rd Milwaukee 9 Wis Easy Cleaner—See J S McCormick Co Ebony—See Hill & Griffith Co Federal Foundry Supply Div Archer-Daniels-Midland Co 2191 W 110th St Cleveland 2 Ohio "Star" (Paste; "Super" & "Graph-Plast" Wash)
Graph-Plast—See Federal Foundry Supply Div

Graph-Plast—See Federal Foundry Supply Div Hill & Griffith Co 1262 State St Cincinnati 4 Ohio "Ebony" "Linoline" Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Hy-ten" Hy-ten—See E F Houghton & Co Ignicoat—See Frederic B Stevens Inc Imperial—See J S McCormick Co King Kore Compound—See Frederic B Stevens Inc Lincoln—See J S McCormick Co Linoline—See Hill & Griffith Co Lion—See J S McCormick Co Lion—See J S McCormick Co Fittsburgh Pa "Easw Cleaner" "Vulcan" "Imperial" "Lincoln" "Silkon" & "Lion" Mills Mfg Co H E \$702 Bessemer Ave Cleveland Ohio

Mills Mfr Co H E 8702 Bessemer Ave Cleve-land Ohio
Molduko—See Superior Graphite Co
Silkon—See J S McCormick Co
Silkon—See J S McCormick Co
Silkon—See Federal Foundry Supply Div
Stevens Inc Prederic B 1800 18th St Detroit
16 Mich "Ignicoat" "King Kore Kom-pound" "Silck Seal" "Tri-Cote"
Superior Graphite Co 1531 First National
Bank Bidg Chicago 3 Ill "Molduko"
Tri-Cote—See Frederic B Stevens Inc
Vulcan—See J S McCormick Co

COMPOUNDS, Cutting Fluid

Acme—See Standard Oil Co (Indiana)
Aidridge Industrial Oils Inc 3401 W 140th St
Cleveland 11 Ohio "Kelcotene" "Kelkool"
A "Crystal"
Allube Corp 928 Allen Ave Glendale 1 Calif
Anderson Oil Co F E Quarry Lane Portland
Conn "Lusol"
Antisep—See E F Houghton & Co
Aqua Sol—See Wayne Chemical Products
Co Co 2730 Bessemer Ave Cl
Ohio "Dum Dum—See Arco Co.
StayTite Products Ceveland 4 Ohio
CompOUNDS, Heat Treating
Aeroheat—See American Cyanam
Aldridge Industrial Oils Inc 3401
Cleveland 11 Ohio "Beacon

Bestoll-See Oster Mfg Co

Bruce Products Corp 500 N West St Howell Mich "Brusol" "Bru-Kut" Bru-Kut-See Bruce Products Corp. Brusol—See Bruce Products Corp. Chillo—See Cities Service Oil Co (Pa) Cimcool—See Cincinnati Milling Machine Co. Cincinati Milling Machine Co Milling Prod-ucts Div 4701 Marburg Ave Cincinnati 9 Ohio "Cimcool"

Ohio "Cimcool"
Cities Service Oil Co (Pa) 60 Wall Tower
New York 5 N Y "Chillo"
Crystal—See Aldridge Industrial Oils Inc
Cut Max—See E. F. Houghton & Co.
Delta Oil Products Co., Teutonia Ave. &
Mill Rd., Milwaukee, Wis.
DoAll Co., 254 N. Laurel Ave., Des Plaines,
III. 111

JII.

Dortan—See Esso Standard Oil Co.

Dromus—See Shell Oil Co.

Econo—See Middle States Oil Co.

Econo—See Middle States Oil Co.

Econo—See National Refining Co.

Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y. "Kutwell," "Dortan,"
"Pennex," "Fanox."
"Fanox—See Esso Standard Oil Co.
Fenelia—See Shell Oil Co.
Fiske Bros Refining Co 129 Lockwood St.

Newark 5 N J.

Garia—See Shell Oil Co.

Gibraltar—See Shell Oil Co.

Gibraltar—See Shell Oil Co.

Gibraltar—See Shell Oil Co.

Guif Oil Corp. 1822 Guif Bidg Pittsburgh 30

Pa. "Guifeut"

Hanchett Mfg Co 906 N State St Big Rapids

Mich.

Mich Mich Hocut—See Houghton & Co.
Hood Refining Co P O Box 586 Manor Pa "Gibraltar"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Antisep" "Hocut" "Cut

Philadelphia 33 Pa "Antisep" "Hocut" "Cut Max"

K-11—See Wayne Chemical Products Co Kelcotene—See Aldridge Industrial Oils Inc Kelkool—See Aldridge Industrial Oils Inc Kerns Co L R 2667 E 95th St Chicago 17 Ill Kutwell—See Esso Standard Oil Co Lusol—See F E Anderson Oil Co Magicut—See Wayne Chemical Products Co Menco—See Mergraf Oil Products Co Mercut—See Mergraf Oil Products Co Middle States Oil Co 1103 W 11th St Cleveland 13 Ohlo "Econo" "Perfection" "Vi-Trool-Ized"

Tool-Ized"
National Refining Co Standard Bidg Cleveland 1 Ohio "Enarco"
No Sep—See Wayne Chemical Products Co.
Oakite Products Inc 19 Rector St N Y N Y
Opaline—See Sinclair Refining Co.
Oster Mfg Co E 289th St Wickliffe Ohio
"Bestoil"

Pennex-See Esso Standard Oil Co orfection—See Middle States Oil Co.

Hillips Petroleum Co Bartlesville Okla COMPOUNDS, Masking

"Philkut"
Preinter—See Standard Oil Co. (Indiana.)
Shell Oil Co., 50 W. 50th St., New York 20,
N. Y. "Garia," "Fenella." "Dromus."
Sinclair Refining Co 600 Fifth Ave New York
N. Y. "Opaline"
Standard Oil Co. (Indiana.) \$10 S. Michigan
Ave Chicago 80 Iil "Acme" "Premier"
"Stanicool" "Stanicut" "Superia"
"Stanicool—See Standard Oil Co. (Indiana.)
Sun Oil Co. 1608 Walnut St. Philadelphia 3 Pa.
"Sunicut"
Superia—See Standard Oil Co. (Indiana.)
Texas Co. 135 E. 42nd St. New York 17 N. Y.
3B—See Wayne Chemical Products Co.
VI-Trool-Ized—See Middle States Oil Co.
W. & B.—See White & Bagley Co.

3B—See Wayne Chemical Products Co
VI_Tool-Ived_Nee Middle States Oil Co.
W & B—See White & Bagley Co
Wayne Chemical Products Co. Copeland Ave
& M C R R Detroit 17 Mich "K-11" "3-B"
"No Sep" "Aqua Soi" "Wayne Right"
"Zeta-Soi" & "Magicut"
White & Bagley Co., 100 Foster St., Worcester, Mass. "W & B."
Zetta-Soi—See Wayne Chemical Products Co
COMPOUNDS, CUTTING FLUID ADDITIVE
—See Additives, Cutting Fluid

COMPOUNDS, Drawing

Parker Rust Proof Co 2177 E Milwaukee Av Detroit 11 Mich "Bonderite" "Bonderlube

COMPOUNDS, GASKET MAKING—See Paste, Gasket Making

COMPOUNDS, Glazing

Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Dum Dum"
Dum Dum—See Arco Co.
StayTite Products Co 3400 Steinway Ave Cleveland 4 Ohio

Aeroheat—See American Cyanamid Co. Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohlo "Beacon Brand" & Cleveland "Kelco"

Amchem Products Inc Brookside Ave & Reading R R Ambier Pa "Ridoxine"

American Cyanamid Co Industrial Chemicals Div Metal Chemicals Section 30 Rockefeller Plaza New York 20 N Y "Aeroheat"

Aspa—See Shell Oil Co. Beacon Brand—See Aldridge Industrial Oils

Brand—See Aldridge Industrial Oils
Inc
Buchanan Chemical Co., C. G., 4646 Baker
Rd., Cincinnati 12, Ohio.
Holden Co. A F 14341 Schaefer Highway Detroit 27 Mich
Kasenit Co 3 King St Mahwah N J
Kelco—See Aldridge Industrial Oils Inc
Mitchell-Bradford Chemical Co Wampus
Lane Milford Conn "Quick Carb" "Quick
Temper"
Park Chemical Co 8074 Military Ave Detroit
4 Mich "Park-Kase" "Woodside's"
Quick Carb—See Mitchell-Bradford Chemical
Co
Quick Temper—See Mitchell-Bradford Chem

Co
Quick Temper—See Mitchell-Bradford Chem
ical Co.
Ridoxine—See Amchem Products Inc
Sauereisen Cements Co Sharpsburg Station
Pittsburgh 15 Pa
Shell Oil Co 50 W 50th St New York 20
N Y "Aspa" "Voluta"
Voluta-See Shell Oil Co
Woodside's—See Park Chemical Co

COMPOUNDS. Lapping

Behr-Manning Corp 4457 Howe St Troy N Y "Silkite" Boyar-Schultz Corp 2000 S 25th Ave Broad-

"Silkite"
Boyar-Schultz Corp 2000 S 25th Avenue Will
Clover Mfg Co 327 Main St Norwalk Conn
Diamond Tool Co 246 Broadway South Haven
Mich "Lap-Loder"
Engis Equipment Co., 431 S. Dearborn St.,
Chicago S. Ill, "Hyprez Diamond."
Hyprez Diamond—See Engis Equipment Co.
Lap-Loder—See Diamond Tool Co
Lea Mfg Co 16 Cherry Ave Waterbury 20
Conn

& Machine Co., 5600 St.

National Broach & Machine Co., 5600 St., Jean Ave., Detroit 13, Mich. "Red Ring." Pep Mfg. Co., 23 W. 42nd St., New York, N. Y.

Red Ring-See National Broach & Machine

Red King Co. Co. Silkite—See Behr-Manning Corp Silkite—See Behr-Manning Corp Silkite—See Behr-Manning Corp

Silkite—See Behr-Manning Corp Timesaver Products Co 629 W Washington Blvd Chicago 6 Ill "Timesaver" "Time-cutter" Trulap—See Wheel Trueing Tool Co Wheel Trueing Tool Co 3200 W Davison Ave Detroit 38 Mich "Trulap" Zip Abrasive Co 1360 W Ninth St Cleve-Zip Abrasive (

COMPOUNDS, Masking
(To prevent lacquer overspray)

Acme Quality Paints Inc 8250 St Aubin Ave
Detroit 11 Mich
Adhere Inc 1220 Maple Ave Los Angeles
15 Calif "Spraymask"
Dennis Chemical Co., 2701 Papin St., St.
Louis 3 Mo "Perma-Skin
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich "LPM"

LPM—See Detrex Chemical Industries Inc
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.

cago 8, Ill. ark Chemical Co 8074 Military Ave Detroit

Fark Chemical Co 8074 Military Ave Detroit 4 Mich "Frotexit"
Ferma-Skin—See Dennis Chemical Co
Fermo Products Co 1629 Platte St Denver 3
Colo "Permo Mask Eze"
Flask—See Servwell Products Co.
Fortexit—See Park Chemical Co.
Servwell Products Co. 6519 Euclid Ave.,
Cleveland 3, Ohio. "Plask."
Sherwin-Williams Co 101 Prospect Ave N W
Cleveland 1 Ohio
Smooth Glaze—See Swavely Chemical &
Varnish Works.
Spraymask—See Adhere, Inc.
Steelcote Mfg. Co., 3418 Gratiot Ave., St.
Louis 3, Mo.
Swavely Chemical & Varnish Works, \$31

Louis 3. Mo. Swavely Chemical & Varnish Works, \$31 Page St., Flint 5. Mich. "Smooth Glase." Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1 Calif

COMPOUNDS, Metal Testing

(To visually locate cracks, flaws or porosity in metal)

Dy-Chek—See Turce Products Inc
K & W Products Inc 8319 Allport Ave Whittier Calif
Kelite Corp 1250 N Main St Los Angeles
Calif

Calif
Magnaflux Corp 7300 W Lawrence Ave Chicago \$1 Ill "Spotcheck" (Dye)
Spotcheck—See Magnaflux Corp
Turco Products Inc 6135 S Central Ave Los
Angeles 1 Calif

COMPOUNDS, MOLDING - See Plastics-

COMPOUNDS, Paint Bonding

dodine—See Amchem Froducts Inc mchem Products Inc Brookside Ave & Reading RR Ambler Fa "Alodine" "Grano-dine" "Lithoform"

Barr & Co W M 2336 S Lauderdale St Mem-phis 6 Tenn "Metal Treat" (Sole distribu-tors Klean Strip Co Box 3565 Memphis 6 Tenn)

Tenn)
Detrex Chemical Industries inc 200
Lettex Chemical Chemicals Corp
Grandine—See Amchem Products Inc
Kelite Corp 1250 N Main St Los Angeles
Colif

Granodine—See Amchem Products Inc Kelite Corp 1250 N Main St Los Angeles Calif Klem Chemicals Inc 14401 Lanson St Dear-born Mich "Klem-Kote" Lithoform—See Amchem Products Inc Metal Treat—See W M Barr & Co

Metal Treat—See W M Barr & Co Oakite Products Inc 19 Rector St N Y N Y Parker Rust Proof Co 2177 E Milwaukee Ave Detroit 11 Mich "Bonderfte" Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Fosbond"

Pennsait Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Fosbond" Totrust Metal-Bond—See Wilbur & Williams

Co Wilbur & Williams Co 130 Lincoln St Bright-on Mass "Totrust Metal-Bond" X-I-M—See H Forsberg Co

COMPOUNDS, Phosphate Coating (For Paintbonding, Rustproofing and Extrusion)

x Chemical Industries Inc Box 501 De-Detrex Chemica troit 32 Mich

COMPOUNDS, POLISHING—See Compounds, Buffing and Polishing (Metal); also Com-ponds, Rubbing and Polishing (Paint Shop)

COMPOUNDS, Rubbing and Polishing (Paint Shop)

(Especially for use with pyrexylin painting systems

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich Albertson & Co 3100 Lowell Ave Sioux City 3 lowa "Sioux" Alsol Products Co 123 Colt St Irvington N J Arco Co 7301 Bessemer Ave Cleveland 27

Blue Ribbon-See International Metal Polish

Blue Ribbon—See International Metal Polish
Co.
Campbell Paint & Varnish Co., Div. Glidden
Co., 106 Gratiot St., St. Louis 2, Mo.
"Glidden Quality."
Colorgio Products, inc., 109 N. Newlin Ave.,
Whittler, Calif.
Ditzler Color Div., Pittsburgh Plate Glass
Co., \$600 W. Chicago Ave., Detroit 4, Mich.
Duco—See du Pont de Nemours & Co
du Font de Nemours & Co E I Finishes Div
Chemical Specialities Sales Wilmington 98
Del "No"
du Pont de Nemours & Co E I Finishes Div
Refinish Sales Wilmington 98 Del "Duco"
Federal—See Kammel Products Corp
Glidden Quality—See Campbell Paint & Varnish Co., 13 Rarnard St., Hillsdale, Mich.
Goodison Mfg Co P O Box 128 Rochester
Mich

Mich

Goodison Mig Co P O Box 128 Rochester Mitch Hollingshead Corp., R. M., Ninth & Cooper Sts Camden N J "Whis" International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kammel Products Corp 1619 Hart Pl Brooklyn 24 N Y "Federal"
Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lee Polish Mig Co 1399 Utica Ave Brooklyn 3 N Y
Mac's Super Gloss Co., 6040 N. Figueros St., Los Angeles 42, Calif.
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.
No ?—See E I du Pont de Nemours & Co Park Chemical Co 8074 Military Ave Detroit 4 Mich 'Parko'
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

Cleveland 1 Ohio
Cleveland 1 Ohio
Simoniz Co 2100 Indiana Ave Chicago 18 III
"Simoniz" "Simonis Kleener" (Polishiag)
Sloux—See Albertson & Co
Smooth Glaze—See Swavely Chemical &
Varnish Works.
Speco, Inc., 7308 Associate Ave., Cleveland \$.

Ohio.
Stain-Ox Co., \$25 E. First Ave., Roselle, N. J.
Sure-Rite—See Warehouse Dist Co
Swavely Chemical & Varnish Works, \$31
Page St., Flint 5, Mich. "Smooth Glaze."
Tumbler Laboratories, J. A., \$23 S. Hanover
St., Baltimore 1, Md.

Warehouse Distributors Co 3810 N 19th St Phila 40 Pa "Sure-Rite" Whiz—See R. M. Hollingshead Corp. Wilson-Imperial Co 115 Chestnut St New-ark 5 N J (Rubbing)

COMPOUNDS, Rust Preventing and Removing

Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohio "Kelcote"
Alox Corp Buffalo Ave & Iroquois St Niagara
Falls N X (Preventing)
Amalie Div L Sonneborn Sons Inc Franklin

Amchem Products Inc Brookside Ave & Reading R R Ambler Pa "Deoxidine" "De-oxylyte" "Peroline" "Permadine" "Therm-oil-Granodine"

oil-Granodine"
American Sand-Banum Co 1 N Merrick Ave
Merrick N Y "Pro-Tex-It"
Anarust—See Wheelabrator Corp
Anderson Oil Co F E Quarry Lane Portland
Conn "Winsoe"

See Cities Service Oil Co (Pa) Antiox—See Penetone Co Astoria Mfg Co 42-02 Vernon Blvd Long Is-land City 1 N Y "Little Giant" Bail Chemical Co 524 Federal St Pittsburgh

ahl Mfg Corp 1400 W 52nd St Seattle

Wash

7 Wash
Barr & Co W M 2336 S Lauderdale St
Memphis 6 Tenn "Metal Treat" (Sole distributors Klean Strip Co Box 3555 Memphis
6 Tenn)
Bishman Mfg Co Osseo Minn "E Z Off"
Bruce Products Corp 500 N West St Howell
Mich "Bruko" "Non-Rust" (Preventing)

Bruce Products Corp 500 N West St Howell Mich "Bruko" "Non-Rust" (Preventing) Bruko-See Bruce Products Corp Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co." Bu-Co-See Buchanan Chemical Co. (CR-430-See R M Hollingshead Corp Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass. "Tasgon."
Celco Corp 60 E 42nd St New York 17 N Y Chicago Hydraulic Oil Co 371 E 116 St Chicago 28 Ill "Pennytroy!"
Chrysler Corp Cycleweld Cement Products Div 5437 W Jefferson Ave Trenton Mich "Cycleweld"
Citles Service Oil Co (Pa) 60 Wall Tower New York 5 N Y "Anti-Corrode"
Copper Co., D. C., 1467 S, Michigan Ave., Chicago 5 Ill. "D C."
Cosmoline—See E. F. Houghton & Co. Crystal Soap & Chemical Co 6300 State Rd Philadelphia 35 Pa (Preventing)
Cycleweld—See Chrysler Corp
D C—See D C Cooper Co
Daubert Chemical Co 333 N Michigan Ave. Chicago 1 Ill "Nox-Rust" (Preventing)

ubert Che Daubert Chemical Co 333 N Michigan Ave Chicago 1 Ill "Nox-Rust" (Preventing) Dearborn Chemical Co Merchandise Mart Plaza Chicago 54 Ill "No-Ox-Id"

Plaza Chicago 54 Ill "No-Ox-Id"
Deoxidine—See Amchem Products Inc
Deoxidyte—See Amchem Products Inc
Deoxidyte—See Amchem Products Inc
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich (Rustproofing)
Ditzler Color Div., Pitrsburzh Plate Glass
Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Diversey Corp 1820 Roscoe St Chicago 13 Ill
Doyle Corp James W 4470 Lawton Ave Detroit 3 Mich (Preventing)
Drew & Co E F Automotive Chemicals Div
15 E 26th St N Y 10 N Y
Du Bois Co 1120 W Front St Cincinnati 3
Ohlo

-See Supersite Corp

Du-Ol—See Supersite Corp F Z Off—See Bishman Mfg Co Ensign Products Co 3528 E 76th St Cleveland & Ohio (Preventing) Ensis—See Shell Oil Co Esso Standard Oil Co, 15 W. 51st St., New York 19, N. Y. "Rust Pan." FO—See Fine Organics Inc Ferox—See Service Industries

Fine Organics Inc 211 E 19th St N Y 3 N Y

Glisten Co., 13 Barnard St., Hillsdale, Mich. Grapho Products Inc P O Box 8604 Lawrence Ind "Pen-A-Trate" Gulf Oil Corp 1822 Gulf Bldg Pittsburgh 20 Pa "Gulf No-Rust"

Pa "Gulf No-Rust"
Hollingshead Corp H M 840 Cooper St Camden N J "Klear Flo-Flush" "Loosen-All"
"Whiz" "CR-430"
Houghton & Co., E. F., 203 W. Lehigh Ave.,
Philadelphia 23, Pa. "Cosmoline," "Rust
Veto." (Preventing.)
Industrial Chemical Products Co 2765 Bellevue Ave Detroit 7 Mich "Sol-Klean" (Removing)

Industrial Metal Protectives Inc 401 Home-stead Ave Dayton 8 Ohio "Zincilate" (Pre-venting)

Johnson Mfg Co 616 N First Ave Mt Vernon

Iowa
K & W Products Inc 8319 Allport Ave
Whittler Calif

Kano Laboratories 1000 S Thompson Lane Nashville 11 Tenn Keicote—See Aigriage Industrial Oils Inc Kerns Co L R 2637 E 95th St Chicago 17 Ill Klear Flo-Flush — See R M Hollingshead

Chemicals Inc 14401 Lanson St Dear-Kiem Chemicals in Arthur Mich Mrylon Inc Ford & Washington Sts Norristown Pa "Rust Release"

L & R Mfg Co 577 Eim St Arlington N J

(Removing) ee Polish Mfg Co 1399 Utica Ave Brooklyn

ee Polish Mig Co 1399 Utica Ave Brooklyn 3 N Y enk Mig Co Franklin Ky "No-Rust" (Pre-venting)

venting)
Lewis & Slocum Co 410 Parkdale St Rochester Mich "No-Mo-Rust" (Preventing)
Lion Oil Co Lion Oil Bidg El Dorado Ark
"Nokorode" (Preventing)
Liquid Glaze Inc 704 Sheridan St Lansing 6
Mich

Mich Liquid Veneer Corp 215 E Ellicott St Buffalo 3 N Y "Rust-Kill" Liquid Wrench—See Radiator Specialty Co.

Little Giant—See Astoria Mfg Co Loosen-All—See R M Hollingshead Corp Lorco—See Lord Chemical Co Lord Chemical Co 2068 S Queen St York Pa

"Lorco"
Lubaid Co., 155 E. Kilbourn St., Milwaukee
1, Wis. "Rench Aid." (For loosening rusty nuts, bolts, cylinder heads, etc.)
Magiclene—See Mitchell-Bradford Chemical

graf Oil Products Co P O Box 215 North-

Merkard Oil Products Co P O Box 21s North-ville Mich "Merseal" Metal Treat—See W M Barr & Co Mitchell-Bradford Chemical Co Wampus Lane Milford Conn "Magiclene" "Silco" "Witch-Dip" "Witch-Oil"

Nich-Dip" "Witch-Oil"
Nokorode—See Lion Oil Co
No-Mo-Rust—See Lewis & Slocum Co
Non-Rust—See Bruce Products Corp
No-Ox-Id—See Dearborn Chemical Co
Norlmrust Corp 223 W 65th St N Y 23 N Y
(Preventing for rims)
No-Rust—See Lenk Mfg Co
Nox-Rust—See Daubert Chemical Co
Oakite Products Inc 19 Rector St N Y N N
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Octoll—See Octagon Process Inc
Ospho—See Rusticide Products Co
Paint Remover Chemicals Corp 2440 Gilbert
Paint Remover Chemicals Corp 2440 Gilbert

Ospho—See Rusticide Products Co Paint Remover Chemicals Corp 2440 Gilbert Ave Cincinnati 6 Ohio "Rust-No-Mor" Parco—See Parker Rust Proof Co. Parker Rust Proof Co. Parker Rust Proof Co. Milwaukee Ave Detroit 11 Mich "Parco" "Parcolac"

"Parco Compound"
Pen-A-Trate—See Grapho Products, Inc.
Penetone Co 74 Hudson Ave Tenafly NI

reventing)
-See Reliance Battery Prod-

"Antiox" (Preventing)
Penetro 1000—See Reliance Battery Products Co
Penetrol—See Reynolds Ink Inc
Pennsylvania Refining Co., Butler Savings &
Trust Bldg., Butler, Pa. "Petrotect."
Pennytroyl—See Chicago Hydraulic Oil Co. ermater Co 300 Broadway Huntington Station N T eroline—See Amchem Products Inc

Petroleum Solvents Corp., 31 Madison Ave., New York 17, N. Y. "Siloo Penetrant." Petrotect—See Pennsylvania Refining Co Philadelphia Quartz Co 1146 Public Ledger Bidg Sixth & Chestnut Sts Philadelphia 6 Pa "Rusticon" (Preventing) Powerfilm—See Thomas Co

Protex—See Wayne Chemical Products Co.
Pro-Tex-1t—See American Sand-Banum Co
Radiator Specialty Co 1400 W Independence
Bivd Charlotte 1 N C "Liquid Wrench"
(For removing frozen joints, nuts, cylinder
heads, tail pipes and mufflers.)
Release—See Sodrin Corp

Reliance Battery Products Co., 2211 Eighth St., Council Bluffs, Iowa. "Pene 1000."

Rench Ald--See Lubald Co. Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio "Penetrol"

Rossaul Co 170 Fifth Ave New York 10 N Y "Rossaul Dexoide" (Removing) Rust Ban—See Esso Standard Oll Co. Rustclean—See Octagon Process Inc

Rusticide Products Co 3125 Perkins Ave Cleveland Ohio "Rust-I-Cide" "Ospho" Rusticon—See Philad-iphia Quartz Co. Rust-Kill—See Liquid Veneer Corp. Rust-No-Mor—See Paint Remover Chemicals Corp

Corp Rust Oleum Corp 2425 Oakton St Evanston Ill (Preventing) Rust Release—See Krylon Inc Rust Shield—See Wilbur & Williams Co Rustrem—See Speco Inc Rust Veto—See E. F. Houghton & Co.

Service Industries 2103 E Somerset St Philadelphia 34 Pa "Ferox"
Service Supply Co 1115 Seventh St Denver 2
Booth Kote—See Klem Chemica
Booth Kote—See Klem Chemica
Booth Kote—See Klem Chemica

Colo hell Oil Co 50 W 50th St N Y 20 N Y "Ensis" lco—See Mitchell-Bradford Chemical Co. loo Penetrant—See Petroleum Solvents

Corp.
Sodrin Corp 2748 McGee Trafficway Kansas
City Mo "Release" (For rusted nuts etc)
Sol-Klean—See Industrial Chemical Products

Co. Speco Inc 7308 Associate Ave Cleveland 9

Speco Inc 7398 Associate Ave Cleveland 9
Ohio "Rustrem"
Spray Products Corp 725 Kenilworth Ave
Merchantville 10 N J "Spray Nuts-Off"
Standard Oil Co (Indiana) 910 S Michigan
Ave Chicago 80 Ill "Stanorust"
Stanley Co John T 642 W 30th St N Y 1 N Y
Stanorust San Standard VII Co (Indiana Y
Stanorust San Standard VII Co (Indiana Y

Stanley Co John T 642 W 30th St N Y 1 N Y Stanorust—See Standard Oil Co. (Indiana.) Steelcote Mfg. Co., 8418 Gratiot Ave., St Louis 3, Mo. Super-Kwick—See Walker Mfg. Co. of Wis Supersite Corp 300 Seymour Ave Derby Conn "Du-Ol" (Removing)
Sure-Rite—See Warehouse Dist Co Tasgon—See Samuel Cabot, Inc. Tectyl—See Valvoline Oil Co Div of Ashland Oil & Refining Co Thermoil-Granodine—See Amchem Products Inc.

Inc
Thomas Co 1645 Hennepin Ave Minneapolis
13 Minn "Powerfilm"
Totrust—See Wilbur & Williams Co
Tri-Flux-See Wolfe-Kote Co
Tumbler Laboratories J A 423 S Hanover St

Baltimore 1 Md Inc 6135 S Central Ave Los

Turce Products inc 6135 S Central Ave Los Angeles I Calif Valvoline Oil Co Div of Ashland Oil & Refining Co 3rd Ave & 6th St Freedom Pa "Tectyl" W & W—See Wilbur & Williams Co Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis "Super-Kwick" Warehouse Distributing Co 2810 N 19th St Phila 40 Pa "Sure-Rite" (Rust solvent for aluminum cylinder heads etc) Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "Protex" Wheelabrator Corp 402 Byrkit St Mishawaka Ind "Anarust" (For wet blasting machines)

Wheelabrator Corp. 402 Eyrkit St Misha-waka Ind "Anarust" (For wet blasting machines)
Whiting Leather & Beliting Co., 9 Murray St., New York 7, N. Y. "Whiting Rust-void," "Whiting Rust Cutter."
Whiz—See R. M. Hollingshead Corp.
Wilbur & Williams Co. 130 Lincoln St Brighton Mass "Rust-Shield" "Totrust" "W & W"
Winsoc—See F E Anderson Oil Co.
Witch Dip—See Mitchell-Bradford Chemical Co.

Witch Oil-See Mitchell-Bradford Chemical

Co.
Witco Chemical Co 75 E Wacker Drive
Chicago 1 Ill (Preventing)
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis
"Tri-Flux" (Removing)
Wynn Oil Co 1151 W 5th St Azusa Calif
Young Radiator Co 709 S Marquette St
Racina Wis

Racine Wis incilate—See Industrial Metal Protectives

COMPOUNDS, Skin Protection

(To protect skin from paints, lacquers, oils, greases, acids, etc.)
American Optical Co Safety Products Div Mechanic St Southbridge Mass "Safeticote

Ayerst Laboratories 22 E 40th St N Y 16

Averst Laboratories 22 E 40th St N Y 16
N Y
Boyer-Campbell Co 6540 St Antoine St Detroit 2 Mich "Skin-Cote"
Cadet Laboratories 10 Clarence St Worcester 5 Mass "Cadet Sealskin" "Hand Saver"
"Skin-Kote"
Cadet Laboratories 10 Clarence St Worcester 5 Mass "Cadet Sealskin" "Hand Saver"
"Skin-Kote"
Cadet Laboratories 10 Clarence St Worcester 5 Mass "Cadet Sealskin" "Hand Saver"
"Skin-Kote"
Cadet Laboratories 10 Clarence St Worcester 5 Mass "Cadet Sealskin" "Hand Saver"
"Skin-Kote"
Co. 1701 Papin St., St.
Louis 3, Mo. "Den-Nex."
Den-Nex—See Dennis Chemical Co.
Lu Pont de Nemours & Co., E. I. Finishes
Div Specialties Sales, Wilmington, Del.
"Pro-Tek." & "Spray-Glaze"
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Hand Saver—See Cadet Laboratories.
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus Skin-Gard"
Milburn Co., 2246 E. Woodbridge St., Detroit, Mich. "Ply."
Ply—See Milburn Co.
Pro-Tek—See E. I. du Pont de Nemours & Co.

Safeticote—See American Optical Co Servwell Products Co 6519 Euclid Ave Cleve-land 3 Ohio Skin-Cote—See Boyer-Campbell Co Skin-Kote—See Cadet Laboratories Spray-Glaze—See E I du Pont de Nemoura & Co Tumbler Laboratories

Booth Kote—See Klem Chemicals Inc Bruce Products Corp 500 N West St Howell Mich (Coating) Buthmask—See Fischer Industries Inc Dearborn Chemical Co Merchandise Mart Plaza Chicago 64 III Detrex Chemical Industries Inc Box 501 De-troit 32 Mich "Vin-Cote" (Cleaning "De-

troit 32 Mich "Vin-Cote" (Cleaning "De-trex" conditioning)

Du Bols Co 1120 W Front St Clincinnati 3
Ohio "Filmite" "Klarifiant" "Strypp"
"Peel Filmite" (Cleaning)
Filmite—See Du Bols Co
Fischer Industries Inc Paddock Rd & N & W
RR Cincinnati 29 Ohio "Buthmask" (Coat-

Fischer Industries Inc Faguoux Nu ex No. 18. RR Cincinnati 29 Ohio "Buthmask" (Coating)
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Sepcote"
Kelite Corp 1250 N Main St Los Angeles Calif (Coating)
Klarifiant—See Du Bois Co
Kiem Chemicals Inc 14401 Lanson St Dearborn Mich "Booth Kote" (Coating)
Manufacturers Processing Co 1360 Hilton Rd
Ferndale 29 Mich
Northwest Chemical Co 3310 Roselawn Ave
Detroit 4 Mich "Spra-Lube"
Oaktre Products Inc 19 Rector St N Y N Y
(Cleaning, coating and maintenance)
Peck's Products Co 610 E Clarence Ave St
Louis 15 Mo "Pepco"
Peel Filmite—See DuBois Co
Pennsalt Chemicals Corp 3 Penn
Celasim Commission Co

Co. Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Plask" (Coating)
Spra-Lube—See Northwest Chemical Co. Strypp—See Du Bois Co.
Turco Products Inc 6135 S Central Ave Los.
Angeles 1 Calif
Vin-Cote—See Detrex Chemical Industries Inc

Wayne Chemical Products Co Copeland Ave & M C R R Detroit Mich

COMPOUNDS, TERMINAL—See Paints, Storage Battery Terminal

COMPOUNDS, Tinning

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux" All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "Kartin" "Kromover" Damtite—See United American Metals Corp. Dunton Co M W 670 Eddy St Providence 3

R I du Pont de Nemours & Co., E. I., Electro-chemicals Dept., Wilmington 98, Del. Dutch Boy—See National Lead Co.

chemicals Dept., Wilmington vs. Dei.
Dutch Boy—See National Lead Co.
Farco—See Farrelloy Co
Farreloy Co 1243 N 26th St Philadelphia 26
Pa "Farco" "Tinezy"
Johnson Mfg Co 616 N First Ave Mt Vernon
Iowa "Tin-Ezy"
Kartin—See All-State Welding Alloys Co.
Kromover—See All-State Welding Alloys Co.
Marson Corp 115 Mill St Revere Mass "TinKote"

Meco.—See Modern Engrg Co
Modern Engrg Co 3411 Pine Blvd St Louis 8
Mo "Meco"
National Lead Co., 111 Broadway, New York
6. N. T. "Dutch Boy."
Pal-Weld Mfg. Co., 103 Lander St., Seattle 4,
Wash.
Remont Mfg Co 1301 S Meyers Rd Lombard
Ill "Tiennene"
Stoux.—See Albertson & Co.

Ill "Tiennene"

Sioux—See Albertson & Co
Swiss Laboratory 1533 Hamilton Ave Cleveland 14 O "Tin-Spred"

Tin-Ey-See Johnson Mfg. Co.
Tine-Syre—See Farrelloy Co
Tin-Kote—See Marson Corp
Tinn-spred—See Remont Mfg. Co.
Tin-Spred—See Swiss Laboratory
Tinitie—See United American Metals Corp.
United American Metals Corp 970 Meeker
Ave., Brooklyn 22, N. Y. "Damtite," "Tintite." (For bearings)

Worthington Corp Harrison N. J.

Worthington Corp Harrison N. J.

Worthington Corp Harrison N. J.

Mills-Chalmers Mfg. Co., Milwaukee 1, Wis.

American Air Compressor Corp., Dell Ave. & American Brake Shoe Co., Kellogg Div., 97

Humboldt St., Rochester 9, N. Y. "Kellogg—American."

Bell & Gossett Co 8200 Austin Ave Morton Grove III

Bliks Mfg. Co., 3114 Carroll Ave. Chicago 12.

Parker Rust Proof Co 2177 E Milwaukee Ave Detroit 11 Mich

COMPOUNDS, Welding

Anti-Spatter—See Wolfe-Kote Co.
Dolphin Paint & Varnish Co 922 Locust St
Toledo 3 Ohio "Dolfinite"
Ensign Products Co 3528 E 76 St Cleveland Flash-Ex-See Wayne Chemical Products

Co. Krembs & Co 669 W Ohio St Chicago 10 Ill "Pyrolute" (Anti-spatter)

Linde Co 30 E 42nd St N Y 17 N Y (Anti-

spatter)
Marquette Mfg Co 307 E Hennepin Ave
Minneapolis 14 Minn "Marquette SpatterShield"

Shield"
Midland Paint & Varnish Co 3801 E 91 St
Cleveland 5 Ohlo "No-Spat" (To prevent
bonding of spatter to parts)
No-Spat—See Midland Paint & Varnish Co
Parr Paint & Color Co 18313 Syracuse Ave
Cleveland 10 Ohlo

Pyrolute—See Krembs & Co Spatter-Ex—See Wayne Chemical Products

Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. ("Flash-Ex" to prevent bonding of flash to dies; "Spatter-Ex" to prevent bonding of spat-

ter to parts.)
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis
"Anti-Spatter" (To prevent bonding of spatter to parts)

COMPOUNDS. Windshield Sealing

Dolphin Paint & Varnish Co 922 Locust St Toledo 3 Ohio "Dolfnite" du Pont de Nemours & Co E I Finishes Div Specialities Sales Wilmington 98 Del "No 7" Krylon Inc Ford & Washington Sts Norris-town Pa "Sealzit"

town Pa "Sealzit"

Ninnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn
Permatex Co 300 Broadway Huntington Station N Y
Radiator Specialty Co 1400 W Ind Blvd Charlotte 1 N C "Solder Seal"
Sealzit—See Krylon Inc
Solder Seal—See Radiator Specialty Co
Vibradamp Corp 4401 Page Ave Rd Jackson Mich

COMPRESSION TESTERS, CYLINDER—See Gages, Cylinder Compression

COMPRESSORS, Air (Auto, Truck and

Bus) (For operating air brakes, horns, etc.)

Bendix-Westinghouse Automotive Air Brake Co 501 Cleveland Rd Elyria Ohio (For air brakes)
Buell Mfg. Co., 919 W. 49th Pl., Chicago
9, Ill.

9. III. Grover Products Co 1221 S Hope St Los Angeles 15 Calif (Electric) Midland-Ross Corp Owosso Div 490 S Chest-nut St Owosso Mich (For truck air nut St Owosso Mich (For truck air brakes) Wagner Electric Corp 6400 Plymouth Ave St Louis 14 Mo (For air brakes)

COMPRESSORS, Air (Diesel Engine Driven)

American Air Compressor Corp Dell Ave & 48th St North Bergen N J
Clark Bros Co Lincoln Ave Olean N Y
Davey Compressor Co 600 Franklin Ave Kent
Chio "Super-Chief"
Ingersoil-Rand Co 11 Broadway N Y 4 N X

Ingersoil-Rand Co 11 Broadway N Y 4 N X Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Unitar" Le Roi Div Westinghouse Air Brake Co Milwaukee 1 Wis "Le Roi Airmaster" Schramm, Inc. Virginia & Gartield Aves., West Chester, Pa

West Chester, Pa Super-Chief—See Davey Compressor Co Unitar—See Joy Mfg Co Worthington Corp Harrison N J

Bell & Gossett Co \$200 Austin Ave Morton Grove III Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, III. (For operating spray equipment.) Black Mfg Co 403 Penn St Baltimore 20 Md Brown Corp W R 2701 N Normandy Ave Chicago 35 III Brunner Div Dunham-Bush Inc 179 South St West Hartford 10 Conn Buell Mfg Co 919 W 49th Place Chicago 9 III

Buell Mfg Co 919 W 49th Flace Unicago 9 Int 9, Ill.

9, Ill.

CP—See Chicago Pneumatic Tool Co.
Campbell-Hausfeld Co 211 Railroad Ave Harrison Ohio "Pressure Maid" "Pressure Princess" "Pressure Queen" "Tankmobile" Champion Pneumatic Machinery Co 825 N Pleasant St Princeton Ill
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Clark Bros Co Lincoln Ave Olean N Y

COMPRESSORS. Air (Electric Motor Driven)-continued

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy." Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 20 Mo Davey Compressor Co 600 Franklin Ave Kent Ohio "Hydro-Van" Dayton Air Compressor Co., 427 Valley St., Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mig. Co., 1516 Park Ave., Emeryville 8, Calif.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O. Easy—See J. D. Cochin Mig. Co.
Emglo Products Corp 116 Du Pont St Johnstown Pa

town Pa Erie Meter Systems Inc 1602 Wayne Ave Erie Pa Gardner-Denver Co., S. Front St., Quincy,

ill. Gast Mfg Corp 2300 Highway M-139 Benton Harbor Mich Hydro-Vane—See Davey Compressor Co

Gast Mfg Corp 2300 Highway M-139 Benton Harbor Mich
Hydro-Vane—See Davey Compressor Co
Ingersoli-Rand Co 11 Broadway New York
4 N Y
Joy Mfg Co 333 Oliver Bidg Pittsburgh 22 Pa
K R W—See K R Wilson Inc
Kellogg-American—See American Brake
Shoe Co., Kellogg Div.
Keystone Compressor Co., 8407 Hegerman
St., Holmesburg, Philadelphia 36, Pa.
Le Roi Div Westinghouse Air Brake Co
Milwaukee 1 Wis
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
National Compressor Corp 933 W Lake St
Chicago 7 Ill
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambera
St., New York, N. Y.
Pressure Maid—See Campbell-Hausfeld Co
Pressure Princess—See Campbell-Hausfeld Co

Pressure Queen—See Campbell-Hausfeld Co Quincy Compressor Co 217 Maine St Quincy

Saylor-Beall Mfg. Co., St. Johns. Mich. Schramm, Inc., Virginia & Garfield Aves., West Chester. Pa. Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa. Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.

15. Cal.
Southwest Pump Co., First and Center Sts.,
Bonham. Tex
Sprayit—See Thomas Industries Inc Electric
Sprayit Div
Superior Pneumatic & Mfg Inc 4758 Warner
Rd Cleveland 25 Ohlo "Superior MityMite"

Mite"
Supreme Equipment Corp 12415 Euclid Ave
Cleveland 6 Ohio
Tankmobile—See Camphell-Hausfeld Co
Thomas Industries Inc Electric Sprayit Div
14th & Illinois Sts Sheboygan Wis
"Sprayit"

"Sprayit"
Tokheim Corp 1602 Wabash Ave Fort Wayne
I Ind (Portable)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohlo.
Wayne Pump Co Salisbury Md
Weaver Mfg Co 2177 8 Ninth St Springfield
III

Wilson Inc K R Arcade N Y "K R W" Worthington Corp Harrison N J

COMPRESSORS, Air (Gasoline Engine

Air Chief-See Davey Compresso Air Chief—See Davey Compressor Co American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J. American Brake Shoe Co., Kellogg Div., 97 Humbolt St., Rochester 9, N. Y. "Kellogg-American." Blue Brute—See Worthington Corp Brunner Div Dunham-Bush Inc 178 South

mer Div Dunham-Bush Inc 179 South West Hartford 10 Conn Air Co RD No 1 Pulaski N Y Mfg. Co., 919 W. 49th Place, Chicago St We Bud-Air

dell mig. Co., 919 W. 35th Flace, Chicago 9, Ill. ampbell-Hausfeld Co 211 Raliroad Ave Har-rison Ohio "Pressure Princess," "Pressure Queen," "Tankmobile"

Queen." "Tankmobile"
Clark Bros Lincoin Ave Olean N Y
Cochin Mig. Co., J. D., 1440 E. Grand Ave.,
South San Francisco, Cal "Easv."
Curtis Mig. Co., Dreumatic Div 1927 Kienlen
Ave St Louis 20 Mo
Davey Compressor Co. 600 Franklin Ave Kent
Ohie "Air Chief" "Super Chief"
Dayton Air Compressor Co., 427 Valley St.,
Dayton 4, Chio.
Decora Mig. Co., 1516 Park Ave., Emeryville
8, Calif.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Esasy—See J. B. Cochin Mig. Co.
Elec-Air—See Power Brake Parts Mig Co
Gardner-Denver Co., S. Front St., Quincy,
Ill.

H & H Products Mfg Co P O Box 2333 Termi-nal Annex Los Angeles 54 Calif

Ingersoll-Rand Co 11 Broadway New York 4 Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa

Kellogg-American—See Merican Brake Shoe Co. Kellogg Div. Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Fhiladelphia 36, Pa. Le Rol Div Westinghouse Air Brake Co

St., Holmesburg, Philadelphia 36, Pa.
Le Roi Div Westinghouse Air Brake Co
Milwaukee 1 Wis
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
Pioneer Air Compressor Co 120 Chambers St
N Y 7 N Y

N Y 7 N Y
Power Brake Parts Mfg Co 8060 Wheeler Ave
Detroit 10 Mich "Elec-Air"
Pressure Princess—See Campbell-Hausfeld
Co

Pressure Queen—See Campbell-Hausfeld Co Quincy Compressor Co 217 Maine St Quincy

Ill Saylor-Beall Mfg Co St Johns Mich Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa. Scott Air Compressor Co., 4682 Mulberry St.,

delphia 24, Fa. Mfg. Co., 1224 Wall St., Los Angeles

Philadelpnia 27, 52 Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal. Sprayit—See Thomas Industries Inc Electric Sprayit Div Super Chief—See Davey Compressor Co. Tankmobile—See Campbell-Hausfeld Co Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Spray-it"

United States Air Compressor Co., 5300 Har-vard Ave., Cleveland 5, Ohio. Worthington Corp Harrison N J "Blue Brute"

COMPRESSORS, Refrigeration (Auto)

Copeland Refrigeration Corp Short Clinton St Sidney Ohio (Air conditioning) Tecumseh Products Co Tecumseh Mich (Air onditioning)
k Corp York Pa (Air conditioning)

CONDENSER TESTERS — See Instruments, Electrical Circuit Testing

CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Spring

American Bosch Corp., 3664 Main St., Spring-field 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Ampco-See American Motor Products Co. Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y Auto-Lite—See Electric Auto-Lite Co Biue Streak—See Electric Auto-Lite Co Biue Streak—See Standard Motor Products, Inc.
D S M Electric Co 6209 John Lodge Express-way Detroit 2 Mich Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind Echlin Mfg Co U S Route 1 Branford Conn Electric Auto-Lite Co Toledo Ohio "Auto-Lite", & B. Mfg. Co., 4248 W. Chicago Ave.,

Lite"
F. & B. Mfg. Co., 4248 W. Chicago Ave.,
Chicago 51, Ill. "Filko."
Filko—See F. & B. Mfg. Co.
GP—See Guaranteed Parts Co.
Guaranteed Parts Co., Seneca Falls, N. Y.

Holley Carburetor Co 11955 E Nine Mile Rd

Holley Carburetor Co 11955 E Nine Mile Rd Van Dyke Mich Kem Mfg Ce 20 Wagaraw Rd Fair Lawn N J M D Parts Mfg Co 4395 E Olympic Blvd Los Angeles Calif Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." Mallory Electric Corp 12416 Cloverdale ave Detroit 4 Mich Mapco—See Machined Parts Corp. National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco." New York Coil Co 42 Second Ave Phoenixville Pa "Nyco" Nlehoff & Co., C. F., 4925 W. Lawrence Ave.,

New York Coil Co 42 Second Ave Phoenixville Pa "Nyco"
Niehoff & Co., C. F., 4925 W. Lawrence Ave., Chicago 30, Ill.
Nimco—See National Ignition Mfg. Co.
Nyco—See New York Coil Co
P & D Mfg. Co., 1902 Steinway St., Long Island City. L. I., N. Y.
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co., Bush Terminal Ridg. No. 8 Brooklyn 32, N. Y.
Shurhit Products Inc 846 S Market St Waukegan Ill
Sorensen Mfg Co P 22-31 57th St Woodside 77 N Y
Sprague Electric Co 344 Marshall St North

77 N Y
prague Electric Co 244 Marshall St North
Adams Mass
pringfield Electrical Specialties. Inc., 120
Wooster St., New York 12, N. Y. "Superseal."

Springfield seal."
Standard Motor Products Inc 27-18 Northern
Blvd., Long Island City, L. I., N. Y. "Blue
Streak." "Standard."
Super Go—See Wells Mfg. Corp.

Superseal—See Springfield Electrical Specialties, Inc.
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Tungsten Contact Mfg. Co., 7311 Cottage
Ave., North Bergen, N. J.
Vulcan—See Paragon Products Corp
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis "Wells" "Super Go"
Wico Electric Co 42 Phelon Ave West
Springfield Mass

CONDENSERS, MOTOR RADIO-See Radio Accessories

CONDUIT, Flexible Car Wiring

(Metal and fabric conduit; see also Tubing, Flexible Metallic)

American Brass Co American Metal Hose Div 698 S Main St Waterbury 20 Conn Div 698 S Sealtite"

"Sealtite"

Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y Formed Tubes Inc S Prairie & Albert Sta Sturgis Mich Saylor Electric Products Corp 277 Pierce St Birmingham Mich "Saylorduct" Saylorduct—See Saylor Electric Products Corp.

Corp.
Sealtite—See American Brass Co
Steelflex—See Universal Metal Hose Co
Universal Metal Hose Co 2133 S Kedzie Ave
Chicago 23 Ill "Steelflex"
Wirecut—See Wiremold Co
Wiremold Co Railroad Ave Hartford 10 Conn
"Wireduct"

CONES, BALL-See Cups and Cones, Ball

CONNECTING ROD BEARINGS-See Bearings and Bushings, Bronze-Backed; also Bearings and Bushings, Die Cast (Babbitt,

CONNECTING ROD ALIGNING TOOLS See—Jigs, Connecting Rod Aligning; also Machines, Boring (Main Bearing and Con-necting Rod)

CONNECTING ROD BOLTS-See Bolts, Connecting Rod

CONNECTING RODS-See Rods, Connecting

CONNECTIONS, Hose

Amseco Inc 145 S Monterey Ave Villa Park

Ill
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Diamond-U Products, 8459 Dearborn Ave.,
South Gate. Calif.
Druge Bros Mfg Co 888 92nd Ave Oakland 3
Cal "Tru-Flate" (Sole distributors TruFlate Inc 888 92nd Ave Oakland 3 Calif)
Eastman Mfg Co 1440 N 24th St Manitowoc
Wia

Excello Accessories Mfrs., Inc., \$1 Madison Ave., Hempstead, N. Y. Gates Rubber Co 999 S Broadway Denver 17

Colo Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Hewitt-Robins Inc 666 Glenbrook Rd Stam-

Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Hite Mfg Co 1916 Dayton Blvd North Chattanooga 5 Tenn
Hunt & Scn. C. B., 1913 E. Pershing St.,
Salem. Ohio. "Quick as Wink."
Imperial Brass Mfg Co 6300 W Howard St.
Chicago 31 Ill
Ingersoll-Rand Co 11 Broadway New York

4 NY
Quick as Wink—See C. B. Hunt & Son.
R/M—See Raybestos-Manhattan Inc
Raybestos-Manhattan Inc Equip Sales Div
Strafford Conn "R/M"
Republic Gear Co 2197 Beaufait Ave Detroit

Stratford Conn.
Republic Gear Co. 2197 Beaufalt Ave.
Republic Gear Co. 2197 Beaufalt Ave.
7 Mich
Sharpe Mfg. Co., 1224 Wall St., Los Angeles
15. Cal.
Smith Welding Equipment Corp., 2633
Fourth St. S. E., Minneapolls 14. Minn.
Syracuse Gauge Co PO Box 51 Manilus N Y
Tolman Mfg. Co., 19 W. Third St. (South
Boston), Boston 27, Mass.
Tru-Flate—See Druge Bros. Mfg. Co.

CONNECTIONS, RADIATOR-See Hose, Ra-

CONNECTIONS, Steering

Aluminum Industries Inc 3670 Werk Rd
Cincinnati 11 Ohio (Tie rods)
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y (Tie rod drag links and
intermediate rods)

intermediate rods)
Buckeye Forging Co 9217 Miles Ave Cleveland 5 Ohio (Rod ends)
Columbus Auto Parts Co Hudson St & P R R
Columbus 16 Ohio
Columbus Bolt & Forging Co 291 Marconi
Blvd Columbus 15 Ohio

Machine Works, 412 N. State St., CONNECTORS, Wiring Harness n, Ill.

Eigin Machine Works, 412 N. State St., Eigin, Ill.
Ertel Products Co Repl Div of Ertel Mfg Corp 1402 E 20th St Indianapolis 7 Ind (Tie rod sockets and drag lines) Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Tie rod ends) Hy-Power—See Lion Auto Parts & Mfg Co Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power" (Tie rod ends and drag links)
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo. (Drag links.)
Master Parts Div Airtex Products Inc Fair field Ill (Tie rod ends and drag links)
Moog Industries Inc 6650 Easton Av St Louis 14 Mo

National-

l-See Wheel Parts & Mfg Co Products Inc South & Cross Sts

Neapco Products Inc South & Cross Sts
Pottstown Pa
O & S Bearing & Mfg Co 777 W 8 Mile Rd
Whitmore Lake Mich (Tile rods)
Parco—See Parts Mfg. Co.
Parts Mfg Co 311 W 66th St New York 23
N Y "Parco" (Tile rods and drag links)
Republic Engrg & Mfg Co 6565 Wells Ave
St Louis 14 Mo

Saginaw Steering Gear Div General Motors Corp 3909 Holland Rd Saginaw Mich (Linkages)

ages)
Superior Machine Tool Co 329 E Firmin
St Kokomo Ind (Sectors)
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio (Drag links and tie

Cleveland 17 Mass (2008) Cleveland 2 Mass (2008) Toledo Steel Products Div Thompson Products Inc 5402 Cedar Rd Cleveland 2 Ohlo Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National" (Tie rod ends and drag

Wohlert Corp 700 E Grand River Ave Lans-ing 5 Mich (Tie rods) CONNECTIONS, THROTTLE-See Joints, Ball

CONNECTIONS, TUBING-See Fittings, Tube CONNECTORS, BELT-See Fasteners, Belt

CONNECTORS, Electrical Circuit

(For electrical circuit from truck to trailer)

Autac Inc P O Box 1071 New Haven Conn
"Autac Koiled Kords"

Bendix—See Scintilla Div Bendix Aviation
Corp
Berg Mfg & Sales Co 1712 S Michigan Blvd
Chicago 16 Ill "Berg De Luxe" "Berg
Royal" "Berg-Shur-Lock" "Berg Univer-

sal"
Cole-Hersee Co., 20 Old Colony Ave., Boston
27, Mass. "Hencol."
Connecticut Telephone & Electric Corp 85
Britannia St Meriden Conn
Griffin Lamp Co 401 S 3rd St Hamilton Ohio
Hencol—See Cole-Hersee Co.

Hencol—See Cole-Hersee Co.
Joy Mfg Co 323 Oliver Bidg Pittsburgh 22 Pa
K-D Lamp Co 1910 Elm St Cincinnati 10
Ohio
Kilegi Bros. Universal Electric Stage Lighting Co., 321 W. 56th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Fioston

22. Mass
Preferred Electric & Wire Co Bush Terminal
Bidg #8 Brooklyn 32 N Y
Pyle-National Co.. 1334 N. Kostner Ave..
Chicago 51 Ill "Triploc"
S & M Lamp Co 119 W 36th Pl Los Angeles
54 Calif

54 Calif
Scintilla Div of Bendix Aviation Corp Sid-ney N J "Bendix"
Triploc—See Pyle-National Co
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo

CONNECTORS, Lamp (Electric)

A M P Inc Harrisburg Pa Cole-Hersee Co., 20 Old Colony Ave., Boston

27, Mass.
Culver-Stearns Mfg Co 181 Greenwood St
Worcester 7 Mass
Eagle Electric Mfg. Co., 23-10 Bridge Plaza
South Long Island City 1 N Y
Pollak Corp Joseph 75 Freeport St Boston

22 Mass
United-Carr Fastener Corp., 21 Ames St.,
Cambridge 42, Mass.
Wade Fleetric Products Co., 211 N. Jacobs
St., Sturgis, Mich.
Watts Electric & Mfg Co 222 E Maple Rd
Birmingham Mich

CONNECTORS, STORAGE BATTERY — See Parts, Storage Battery

CONNECTORS, TRAILER - See Couplers,

AMP Inc Harrisburg Pa "Fastin-Faston" CONTACT POINTS-See Points, Contact (Ignition)

CONTOUR GRINDING MACHINES-See Machines, Grinding (Contour)

CONTOURING LATHES - See Lathes, Con-

CONTRACT WORK

(See also Machine Work, To Order; also Screw Machine Products To Order) Perfection Gear Co 152nd St & Vincennes Ave Harvey III

Ave Harvey III Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis (Sheet metal)

CONTROL CABLE-See Cable, Brake Con-

CONTROLLERS, Electric Motor

Allis-Chalmers Mfg. Co., Milwaukee I, Wis. Bristol Co Waterbury 20 Conn. Clark Controller Co 1146 E 152nd St Cleveland 10 Ohio "3C".

Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee I, Wis. E C & M-See Electric Controller & Mfg. Co. Electric Controller & Mfg. Co. Electric Controller & Mfg. Co. D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M".

G-E-See General Electric Co.

See General Electric Co G-E-See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
3C-See Clark Controller Co
Ward Leonard Electric Co., 37 South St.,
Mt. Vernon, N. Y.
Westinghouse Electric Corp 2 Gateway Center Pittsburgh 20 Pa

(For changing adjustment to from seat or operative representations)

CONTROL SYSTEMS (Electrical)

Westinghouse Electric Corp 2 Gateway Cen-ter Pittsburgh 20 Pa

CONTROLS, Accelerator

Dow Mechanical Corp Thompsonville Conn "Accel-O-Rest"

CONTROLS, Brake (Hand)

Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 11 Ohio "Fawick-Neate"

CONTROLS, Brake (Trailer)

Bendix Westinghouse Automotive Air Brake Co 901 Cleveland Ave Elyria Ohio (Air) Co 301 Cleveland Ave Elyria Ohio (Air)
Mico—See Minnesota Automotive, Inc., 1328 Hennepin
Ave., Minnesotis 3, Minn. "Mico."
Power Brake Equipment Co 1632 S E 11th
Ave Portland 14 Ore "Williams"
Power Brake Parts Mfg Co 3435 S Racine
Ave Chicago 8 III
Velvac Inc 3534 W Pierce St Milwaukee 15
Wagner Electric Corp 6409 Plymouth Ave
St Louis 14 Mo (Air)
Warner Electric Brake & Clutch Co Beloit
Wis

Williams-Power Brake Equipment Co

CONTROLS, Brake (Wheel Spinning) (Installed in brake system, prevents spinning of one wheel)

Minnesota Automotive Inc 1101 N Front St Mankato Minn "Mico No-Stuck"

CONTROLS, CARBURETOR - See Controls, Carburetor Choke (Automatic); also Controls, Push-Pull

CONTROLS, Carburetor Choke (Automatic)

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind "Stromberg" Pierce Governor Co 1625 Ohio Ave Ander-son Ind "Sisson"

Sisson—See Pierce Governor Co.
Stromberg—See Bendix Products Div., Bendix Aviation Corp.

CONTROLS, Clutch (Power Operated)

Sendix Products Div Bendix Aviation Corp South Bend 20 Ind (Vacuum) Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Ave., Elyria, Ohio. (Air.)

CONTROLS, Electronic

A C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich

CONTROLS, Engine (Automatic) (See also Switches)

Fulton Sylphon Div Robertshaw-Fulton Con-trols Co W Cumberland Ave Knoxville 1 Tenn "Sylphon" (Diesel)

Tenn "Sylphon" (Diesel)
Minneapolis-Honeywell Regulator Co Transportation Div 2753 Fourth Ave S Minneapolis 8 Minn (Diesel)
Murphy Mfr Inc Frank W 5428 E Admiral Pl Tulsa Okla
Sylphon—See Fulton Sylphon Div
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokle Ill

CONTROLS, Gear Shift (For Transmission)

Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
CONTROLS. GENERATOR CURRENT &
VOLTAGE — See Regulators, Generator and Voitage (Auto)

CONTROLS, Headlamp Beam (Auto-

Dynotron Corp Lisbon Ohio Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind "Autronic-Eye" CONTROLS, HEATER (THERMOSTATIC)— See Thermostats, Heater

CONTROLS, Oil Level

Alvor—See Lunkenheimer Co Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio. "Alvor."

(For changing adjustments of carbure-tor from seat or operating choke for starting, exhaust heater, exhaust

horn, ventilator, radiator shutter, etc.)
Accurate Products Inc 135 N Spring St
Indianapolis Ind

Indianapolis Ind Aido—See Superior Screw and Mfg Co American Chain & Cable Co Automotive & Aircraft Div 601 Stephenson Bidg Detroit 2 Mich "Tru-Lag" Arens Controls Inc 2019 Greenleaf St Evans-

ton Ill

Arens Controls Inc 2019 Greenleaf St Evanston III
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III
Lightnin—See R J Loock & Co
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Miller Co L B 336 W Main St Stamford Conn Milwaukee Spring Co Div Illinois Coll Spring Co 3400 S Nevaña St Milwaukee 7 Wis National—See Wheel Parts & Mfg Co
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich Republic Gear Co 2197 Beaufait Ave Detroit 7 Mich Richland Auto Parts Co 145 Distl Ave Mansfield Ohio (Aircraft automotive etc)

SYNCHRO-START

Dependable Automatic Engine Controls Automatic Starting • Safety Protection Overspeed Governors • D. C. Solenoids

SYNCHRO-START PRODUCTS, INC. 8151 N. RIDGEWAY AVE.

Circle 220 on Inquiry Card for more data

FLEXIBLE CONTROLS STOCK OR CUSTOM MADE UNITS

PUSH-PULL • FRICTION • LOCKING • ROTARY TYPE for Automobiles, Industrials, Lawn Mower Marine and Farm Equipment Applications

SUPERIOR SCREW & MFG. CO., INC. 1227 W. HENDERSON STREET • CHICAGO 13, ILLINOIS

Circle 221 on Inquiry Card for more data

RICHLAND. DASH CONTROLS

Automotive—Industrial—Marino—Aircraft
Are Made to Your Requirements
PUSH & PULL, LOCKING OR FRICTION Best for Less, Since 1918 THE RICHLAND AUTO PARTS CO.

Circle 222 on Inquiry Card for more data

CONTROLS. Push-Pull-continued

Servwell Products Co 6519 Euclid Ave Cleve-land 3 Ohio
Shakespeare Products Co 241 E Kalamazoo
Ave Kalamazoo Mich
Simmonds Aerocessories Inc 105 White
Plains Rd Tarrytown N Y
Southwest Products Co 1705 S Mountain Ave
Monrovia Calif
Superior Screw & Mfg Co 1227 W Henderson
St Chicago 13 Ill "Aldo" (Also manual
choke conversions kits)

St Chicago 13 Ill "Aldo" (Also manual choke conversions kits)
Teleflex Inc Box 218 North Wales Pa
Tru-Lay—See American Chain & Cable Co.,
Automotive & Aircraft Div
Weatherhead Co Ft Wayne Div 128 W
Washington Blvd Ft Wayne Ind
Western Control Corp 2533 S West St
Wichita Kans
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"

CONTROLS, Refrigeration

Controls Co of America A-P Div 2450 N 32nd St Milwaukee 16 Wis

CONTROLS, Remote Power

(For snow plows, road machinery, etc.)

Dyna-Might-See Monarch Road Mchry Co Gar Wood Industries Inc Wayne Mich "Gar Wood Snowlift" (Fan belt driven for snow plows)

plows)
Hy-Lo-Jack—See Monarch Road Mchry Co
Hy-Lo-Jeep—See Monarch Road Mchry Co
Monarch Road Machinery Co 1331 Michigan
St N E Grand Rapids 3 Mich "DynaMight" "Hy-Lo-Jeep" "Hy-Lo-Jack" (Hydraulic, belt and electrically driven)
Ring-Walt Products 123 N Lowry Ave
Springfield Ohio (Electric type)
Stratton Equipment Co 2030 E 105th St
Cleveland 6 Ohio (For off-highway equipment)

ment)

CONTROLS, STEERING COLUMN—See Con-trols, Push-Pull

CONTROLS, WELDING-See under Weiders and Equipment

CONVERTERS, LP-Gas, for Gasoline Engines

Algas—See American Liquid Gas Corp
American Liquid Gas Corp 1109 Santa Fe
Ave Los Angeles 21 Calif "Algas"
Beam Products Mfg Co 3040 Rosslyn St Los
Angeles 55 Calif
Century Gas Equipment Maryel Scholler

Angeles 55 Calif
entury Gas Equipment Marvel-Schebler
Products Div Borg-Warner Corp 625
Southside Dr Decatur III
& S Carburetor Co 2634 N Beckley St
Dallas 2 Tex

CONVERTERS, Torque (Hydraulic)

B&B-See Borg & Beck Div Borg-Warner

B&B—See BUIK & Borg-Warner Corp 6558 S Corp Borg & Beck Div Borg-Warner Corp 6558 S Menard Ave Chicago 18 Ill "B & B" Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich "Torcon" Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer"

Pana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer" Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich Funk Aircraft Co 1211 W 12th St Coffeyville Kans

Kans
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit Mich
Rockwell-Standard Corp Transmission &
Axle Div 100 Clark Ave Detroit 32 Mich
"Timken-Detroit"
Spicer—See Dana Corp
Timken-Detroit — See Rockwell-Standard
Corp

Torcon—See Clark Equipment Co Twin Disc Clutch Co 1228 Racine St Racine Western Gear Corp 2600 E Imperial High-way Lynwood Calif (Truck)

CONVEYOR CHAINS-See Chains, Conveyor CONVEYOR FURNACES-See Furnaces, Con-

CONVEYORS, Apron

A-F-See Alvey-Ferguson Co. Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich Rd Livonia Mich Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F" Anchor Steel & Conveyor Co 6900 Kingsley
Ave Dearborn Mich
Bartlett & Snow Co., C. O., 6200 Harvard
Ave., Cleveland 5, Ohio.
Brady Conveyors Corp 4244 Dempster St
Skokle III Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio Chain Beit Co 4733 W Greenfield Ave Milwau-Kee | Wis "Rex" Gifford-Wood Co 15 Hill St Hudson N Y Haiss Mfg Co George 350 Fifth Ave N Y 1

N Y
Hunt Co., C. W., Div. Gifford-Wood Co.,
Hudson 51, N. Y.
International Conveyor & Washer Corp.,
652 E. Fort St., Detroit 26, Mich.
Jeffrey Mfg Co 846 N 4th St Columbus 16

Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohlo
Link-Beit Co Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 5 Ky
Mathews Conveyer Co., 102 Tenth St., Ellwood City, Pa (Continuous.)
Mechanical Handling Systems inc 4600 Nancy
Ave Detroit 12 Mich
Olson Mfg Co Samuel 2418 Bloomingdale Ave
Chicago 17 Ill
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Rex-See Chain Best Co.
Stephens-Adamson Mfg. Co., 150 Ridgeway
St. Aurora, Iu.
Stevens Co., A. T., 118 E. 28th St., New
York 16, N. Y.
Union Chain & Mfg Co Sandusky Ohlo
Webb Co Jervis B 8925 Alpine Ave Detroit 4
Mich

Webster Mfg Inc Tiffin 16 Ohlo

CONVEYORS, (Floor Automotive Type)

Anchor Steel & Conveyor Co 6900 Kingsley Ave Dearborn Mich Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

CONVEYORS, Belt

A-F-See Alvey-Ferrumon Co.

Acme Conveyor & Oven Co. 31465 W. 8 Mile
Rd Livonia Mich
Alvey Conveyor Mfg Co. 9301 Olive St. Rd.
St. Louis 24 Mo.
Alvey-Ferguson Co. 3131 Disney St. Oakley
Cincinnati 9 Ohio "A-F"
Anchor Steel & Conveyor Co. 6906 Kingsley
Ave. Dearborn Mich

Ave Dearborn Mich
Arr-O—See Arrow Products Inc
Arrow Products Inc S Ferry St Grand Haven
Mich ("Arr-O-Mite & "Arr-O-Booster"
Portable; "Arr-O-Parts Veyor" portable
cleated; "Arr-O-Veyor" & "Arr-O-Veyor
Jr" permanent)
Bartlett & Snow Co C O 6200 Harvard Ave
Cleveland 5 Ohlo
Bonded Scale & Machine Co S3 Bellevue

Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio Brady Conveyors Corp 4244 Dempster St Skokie III

Skokle III
Buschman Co E W Spring Grove & Clifton
Aves Cincinnati 32 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Reg."
Farquhar—See Oliver Corp A B Farquhar Difford-Wood Co., 15 Hill St., Hudson N Y
Haiss Mfg Co George 350 Fifth Ave N Y 1

Hewitt-Robins Inc 666 Glenbrook Rd Stam-

Hewitt-Robins and we of the ford Conn International Conveyor & Washer Corp 452 E Fort St. Detroit 25, Mich. Island Equipment Corp 1090 E 31st Hialeah Fla "Unitized" "Styl-O-Veyor" (Forta-

Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio nsen Inc 9331 Freeland St Detroit 28

Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Lumberoller" LEW-See Lippmann Engrg Wks Inc Lamson Corp., 100 Lamson St., Syracuse 1.

N v
Link-Belt Co Prudential Plaza Chicago 1 Ill
Lippmann Engrg Wks Inc 4603 W Mitchell
St Milwaukee Wis "LEW"
Logan Co Cabel St Louisville 6 Ky
Lumberoller—See Joy Mfg Co
Mathews Conveyer Co 102 Tenth St Ellwood
City Pa

City Pa Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit, Mich. Michigan Crane & Conveyor Co 115 N Mc-Kinstry 8t Detroit 9 Mich Mulkey Co Sam P O Box 271 Lee's Summit

MO
Oliver Corp A B Farnuhar Div 142 N Duke
St York Pa "Farnuhar"
Olson Mfg Co Samuel 2418 Bloomingdale
Ave Chicago 47 III
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Rapistan—See Rapids-Standard Co

Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"

-See Chain Belt Co.

Sage Equipment Co 30 Essex St Buffalo 13

N Y
Sheehan Co R T 8070 N Territorial Rd Plymouth Mich (Metal mesh)
Standard Conveyor Co., 515 Second Ave.,
N. W., North St. Paul 9, Minn.
Stephens-Adamson Mig. Co., 150 Ridgeway

Stephens-Adamson Mig. Co., 150 Ridgeway St., Aurora, Ill. Stevens Co., A. T., 118 E. 28th St., New York 16, N. Y. Styl-Q-Veyor—See Island Equipment Corp. Union Tool Corp 800 N Detroit St Warsaw Ind

Unitized—See Island Equipment Corp Webb Co Jervis B 8925 Alpine Ave Detroit 4

Mich

MICH
Webster Mig. Inc., Tiffin 16, Ohio.
Weld-Bilt—See West Bend Equipment Co
West Bend Equipment Co 216 S Water St
West Bend Wis "Weld-Bilt"

CONVEYORS, Chain

CONVEYORS, Chain

A-F—See Alvey-Ferguson Co.
Alvey Conveyor Mrg Co 9301 Olive St Rd
St Louis 24 Mo
Alvey-Ferguson Co 3131 Disney St Oakley
Cincinnati 9 Ohio "A-F"
Anchor Steel & Conveyor Co 6996 Kingsley
Ave Dearborn Mich
Bartlett & Snow Co., C. O., 6200 Harvard
Ave., Cleveland 5, Ohio.
Buschman Co E W Spring Grove & Clifton
Aves Cincinnati 32 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Farquhar—See Oliver Corp A B Farquhar Div
Gliford-Wood Co 15 Hill St Hudson N Y
Haiss Mrg Co George 350 Fifth Ave N Y 1
N Y
Hapman Conveyors Inc 630 Gibson St Kala-

N Y
Hapman Conveyors Inc 630 Gibson St Kalamazoo 6 Mich
International Conveyor & Washer Corp.,
652 E. Fort St., Petrolt 26, Mich.
Island Equipment Corp 1990 E 31st St Hialeah Fla "Ul'imate"
Jeffrey Mfg Co 346 N 4th St Columbus 16
Ohio

Ohio
Lamson Corp., 100 Lamson St., Syracuse 1,
N. Y.
Link-Belt Co Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co., 102 Tenth St., Ellwood City, Pa.
Mechanical Handling Systems, Inc., 4600
Nancy Ave., Detroit 12, Mich.
Michigan Production Engrg Corp 1796 E
Nine Mile Rd Hazel Park Mich
Oliver Corp A B Farquhar Div 142 N Duke
St York Pa "Farquhar"
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Rex—See Chain Belt Co.
Standard Conveyor Co., 215 Second Ave.,
N. W., North St. Paul 9, Minn.
Stephens-Adamson Mfg. Co., 150 Ridgeway
St., Aurora, Ill.
Ultimate—See Island Equipment Corp.
Webb Co Jervis B 8925 Alpine Ave Detroit 4
Mich on Corp., 100 Lamson St., Syracuse 1,

Webster Mfg. Inc., Tiffin 16, Ohio.

CONVEYORS, Enameling, Painting and Drving

International Conveyor & Washer Corp., 452 E. Fort St., Detroit 26, Mich. Link-Belt Co Prudential Plaza Chicago 1 Ill Mathews Conveyer Co., 102 Tenth St., Ell-wood City. Pa.
Ross Engrg Div Midland-Ross Corp J O 444 Madison Ave New York 2 N Y
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

CONVEYORS, Furnace

Link-Belt Co Prudential Plaza Chicago 1 Ill

CONVEYORS, Gravity (Roller)

CONVEYORS, Gravity (Roller)

A-F.—See Alvey-Ferguson Co.
Alvey Conveyor Mfr Co 3301 Olive St Rd
St Louis 24 Mo "Alvey-St Louis"
Alvey-Ferguson Co. 3131 Disney St Oakley
Cincinnati 9 Ohio "A-F".
Arr-O-Roll—See Arrow Products Inc
Arrow Products Inc S Ferry St Grand Haven
Mich "Arr-O-Roll"

Buschman Co E W Spring Grove & Clifton
Aves Cincinnati 12 Ohio "Quick Eez"
Faruuhar—See Oliver Corp A B Farquhar Div
LEW—See Lippmann Engrg Works
Lamson Corp., 100 Lamson St., Syracuse 1,
N. Y.
Lippmann Engrg Wks Inc 4603 W Mitcheil

N. Y.
Lippmann Engrg Wks Inc 4603 W Mitchell
St Milwaukee Wis "LEW"
Logan Co Cabel St Louisville 6 Ky
Magline Inc Pinconning Mich "Magliner"
(Portable)
Mathews Conveyer Co., 102 Tenth St., Ellwood City, Pa.

Mechanical Handling Systems, Inc., 4600
Nancy Ave., Detroit, Mich.
Michigan Crane & Conveyor Co 115 N McKinstry St Detroit 9 Mich
Oliver Corp A H Farquhar Div 142 N Duke
St York Pa "Farquhar"
Olson Mig Co Samuel 2418 Bloomingdale Ave
Chicago 47 Ill
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Quick Eez—See E W Buschman Co
Rapids-Standard Co Kapistan Bidg Grand
Rapids 2 Mich "Rapistan"
Sage Equipment Co 36 Essex St Buffalo 13

Sage Equipment Co 30 Essex St Buffalo 13

N Y Standard Conveyor Co., 315 Second Ave., N. W., North St. Paul 9, Minn. Webb Co Jervis B 8925 Alpine Ave Detroit 4

CONVEYORS, Overhead

(See also Systems, Overhead Conveying)

A-F-See Alvey-Ferguson Co. Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"

Cincinnati 9 Ohio "A-F"
Anchor Steel & Conyeyor Co 6906 Kingsley
Ave Dearborn Mich
Buschman Co E W Spring Grove & Clifton
Aves Cincinnati 32 Ohio "Universal"

(Cable)
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
Island Equipment Corp 1090 E 31st St Hialeah Fla
Jensen Specialties Inc 9331 Freeland St Detroit 28 Mich
Lamson Corp., 100 Lamson St., Syracuse 1, N. Y.

N. Y. Link-Belt Co Prudential Plaza Chicago 1 III Louden Machinery Co., 1102 West Ave., Fairfield, lowa. Mathews Conveyer Co., 102 Tenth St., Ell-wood City. Pa.

Fairfield, Iowa.

Mathews Conveyer Co., 102 Tenth St., Ellwood City, Pa
Mechanical Handling Systems, Inc., 4600
Nancy Ave. Detroit 12 Mich
Palmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
Rapids-Standard Co Rapistan Bidg Grand
Rapids 2 Mich "Rapistan-Keystone"
Universal—See E W Buschman Co
Webb Co Jervis B 8925 Alpine Ave Detroit 4
Mich

CONVEYORS, Portable

A-F-See Alvey-Ferguson Co. Ace-See Oliver Corp A B Farguhar Div Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich

nd Livonia Mich Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F" Baughman Mfg Co Shipman Rd Jerseyville III (Belt)

Ill (Belt)

Bonded Scale & Machine Co 83 Bellever
Ave Columbus Ohio

Buschman Co E W Spring Grove Ave & Clifton Ave Cincinnati 32 Ohio "Trojan"

Farquhar—See Oliver Corp A B Farquhar Div
Haiss Mfg Co George 350 Fifth Ave N Y 1

N Y

Discreptions of Council Cou

NY
International Conveyor & Washer Corp., 652 E. Fort Rt. Detroit 26. Mich.
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
LEW—See Lippmann Engrg Wks Inc
Lippmann Engrg Wks Inc 4603 W Mitchell
St Milwaukee Wis "LEW"
Little Hustler—See May-Fran Engrg Inc
Mathews Conveyer Co., 102 "Fanth St., Ellwood City, Pa.
May-Fran Engrg Inc 1744 Clarkstone Rd
Cleveland 12 Ohio "Little Hustler"
Oliver Corp A B Farquhar Div 142 N Duke
St York Pa "Ace" "Porta" "Silver Flash"
Olson Mfg Co Samuel 2418 Bloomingdale Avs
Chicago 47 III
Porta—See Oliver Corp A B Farquhar Div

Rapids-Standard Co Rapistan Bldg Grand Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"

Silver Flash—See Oliver Corp A B Farquhar Div

Div Standard Conveyor Co., 215 Second Ave. N. W., North St. Paul 2, Minn. Trojan—See E W Buschman Co Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

Pisconsin Foundry & Machine Co., 623 E. Main St., Madison 1, Wis. William

CONVEYORS, Power and Free

Link-Belt Co Prudential Plaza Chicago 1 III Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich Webb Co Jervis B 8925 Alpine Ave Detroit 4

CONVEYORS, Spiral Chute

A-F-See Alvey-Perguson Co. Alvey Conveyor Mfg Co 9801 Olive St Rd St Louis 24 Mo CORES, GENERATOR-See Parts, Cores

Alvey-Ferguson Co 3131 Disney St Oakley
Cincinnati 9 Ohio "A-F"
Link-Belt Co Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co., 162 Tenth St., Ellwood City, Pa.
Olson Mig Co Samuel 2418 Bloomingdale Ave
Chicago 47 Ill
Standard Conveyer Co. 315 Second Ave N W

Chicago 47 Ill Standard Conveyer Co 315 Second Ave N W North St Paul 9 Minn

CONVEYORS, Truck and Trailer (Floor Type)

Watson Co H S 1316 67th St Emeryville Calif "Watson-DeWitt Moto-Vator" (Elec-

CONVEYORS. Under Floor Tow

Anchor Steel Conveyor Co 6900 Kingsley Ave Dearborn Mich Mechanical Handling Systems Inc 4600 Dearborn Mich Sechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich "MHS"

COOLERS, Automobile

(See also Air Conditioning Units, Auto, Truck, Bus and Trailer)

BEW Corp 3055 E 12th St Los Angeles 23 Calif

Calif

& S Mfg Corp 2824 E Washington St
Phoenix Ariz "Idler" (Sole distributors
Idler Products Co 2824 E Washington St

Idler Products Co 2824 E Washington St Phoenix Ariz)
Idler—See G & S Mfg Co
Kab Kool—See Metal Products Engre Inc
Metal Products Engineering Inc 4000 Long
Beach Ave Los Angeles 58 Calif "Kab Kool"
Spitzka Mfg Co 235 Colfax St North Sacramento Calif "Thermo-Cool"
Thermador Electrical Mfg. Co., 5119 District Blyd., Los Angeles 22, Cal.
Thermo-Cool—See Spitzka Mfg Co

COOLERS, OIL (Engine)-See Regulators, Oil Temperature (Engine)

COOLERS, Oil (Transmission)

Harrison Radiator Div General Motors Washburn & Walnut Sts Lockport N

COPPER ALLOYS—See Alloys, Copper COPPER, ROD AND SHEET—See Brass and Copper, Sheet, Rod and Ingot COPPER TUBE—See Tubing, Brass and Cop-

per COPPERS, SOLDERING—See Irons, Soldering COPYING LATHES—See Lathes, Copying

CORD, Service (Portable Tool)

General Cable Corp., 420 Lexington Ave., New York 17. N. Y General Electric Co Const Material Div 1285 Boston Ave Bridgeport 2 Conn 1285 Boston Ave Bridgeport 2 Conn Packard Electric Div General Motors Dana St Warren Ohio "Packard Flex-o-Cord" Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39 Mass "Tirex" Tirex—See Simplex Wire & Cable Co. Triple-A-Specialty Co 2825 N Western Ave Chicago 18 Ill White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.

CORD, Tire

(For use in manufacture of tires)
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio (Cotton nylon and

Parkway Akron Onio (Cotton nylon and rayon)
General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Onio "Nygen"
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio (Nylon)
Industrial Rayon Corp., 660 Union Com-merce Bidg., Cleveland 1, Ohio. "Tryon."

merce Bidg., Cleveland 1, Ohio. "Tryon."
(Rayon.)
Nygen.—See General Tire & Rubber Co
Tryon.—See Industrial Rayon Corp.
United States Rubber Co Rockefeller Center
1230 Ave of the Americas New York 30
N Y

CORDS. Assist

Bridgeport Fabrics Inc 165 Holland Ave Bridgeport 1 Conn

CORE COMPOUNDS-See Compounds, Core CORE HOLE PLUGS-See Plugs, Core Hole and Expansion

CORE MAKING MACHINES—See Machines, Core Making (Foundry)

CORES, GENERATOR-See Parts, Generator

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka."
Beacon Auto Radiator Co 110 Brookline Ave Boston 15 Mass
Daniel Radiator Mfg Co 5542 Harvey Wilson Ave Houston 20 Tex "Gold Seal"
Eureka—See Auto Radiator Mfg. Co G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
General Radiator Co P O Box 28 Mt Vernon Ill
Gold Seal—See Daniel Radiator Mfg. Co.

Gold Seal—See Daniel Radiator Mfg Co Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.

N. Y.
Lake Auto Radiator Mfg Co 5200 W 130th
St Cleveland 39 Ohio
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Modine Mfg Co 1509 DeKoven Ave Racine

CORES, VALVE-See Valve Cores (Tire)

CORK, Sheet

CORK, Sheet

Armstrong Cork Co., Industrial Div., Lancaster Pa "Armstrong's"

Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.

Chicago Cork Works Co., 5289 M. Avondale Ave., Chicago 30, Ill.

Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y. The Control of Casket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "Korkold." (Cork and fibre.)

Betton See Felt Products Mfg. Co.
Felt Products Mfg Co 7450 N McCormick
Blvd Skokle III "Fel-Pro"
Korkold—See Detroit Gasket & Mfg Co

Korkoid-See Detroit Gisket & Mig Co Mitchell & Smith Div Sheller Mig Corp 8900 Hampton Blvd Norfolk & Va Mundet Cork Corp., 1101 Tonnelle Ave., North Bergen, N. J. Rhopac Inc 3425 Cleveland St Skokie Ill Sure-Rite Products Corp 2731 N Sixth St Philadelphia 33 Pa Sutherland Leather & Felt Co 743 Beaublen St Detroit 26 Mich

CORK WASHERS-See Gaskets, Cork

CORKS, Brake and Clutch Insert

Armstrong Cork Co., Industrial Div., Lan-caster, Pa.
Coyne & Paddock, Inc., 40-09 21st St., Long Island City I, N. Y.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.

COTTER PINS-See Pins, Cotter

COUNTERBORES

Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Bivd Detroit 32 Mich Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich (Chatterless)

COUNTERS, Engine Revolution (Auto)

Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago III Veeder-Root, Inc., 20 Sargeant St., Hart-ford 2, Conn.

COUNTERS, Revolution (Machinery) (For counting automatic output)

Bristol Co Waterbury 20 Conn Durant Mfg. Co., 1955 N. Buffum St., Mil-waukee 1, Wis. "Productimeter." Engler Instrument Co 250 Culver Ave Jersey City 5 N J Productimeter—See Durant Mfg. Co. Veeder-Root, Inc., 20 Sargeant St., Hart-ford I. Conn.

COUNTERSHAFTS

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. N. Y. Link-Belt Co Prudential Plaza Chicago 1 Ill Webster Mig. Inc., Tiffin 16, Ohio.

COUNTERSINKS

everance Tool Industries Inc 711 Iowa Rd Saginaw Mich (Chatterless)





Circle 223 on Inquiry Card for more data

COUPLERS, Trailer

Acme Mfg Co 1406 Agnes St Kansas City 27 Rockford Ill

Rockford III
Austin Trailor Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Back-III Hitch-Mase traininer Blow Tool Co.
Baker Hitch-Master-See Independent Iron

Baker Hitch-Master—See Independent Iron Works Inc
Berlutl Mfg Co 2936 Bay Rd Saginaw Mich "Snapping Turtie" (House and utility) Big Boy Products Div of Dalton Foundries Inc Lincoln & Jefferson Sts Warsaw Ind Boltfast—See Elkhart Weiding & Boiler Works Inc

Works inc
Bull Dog-See Hammer Blow Tool Co.
Burch Corp 326 S Thoman St Crestline Ohio
"Quick Mount"
Colson Corp Elyria O'hio
Draw-Tite Co Belleville Mich (Utility)
Eagle—See Utility Tool & Body Co
Eikhart Welding & Bolier Works Inc 2132
S Main St Elkhart Ind "Boltfast"
Foote Industries 1010 S Washington Ave
Lansing Mich
Foreman Mig Co 5353 S State St Chicago 9
Ill "Quick-Lock"
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14,
Wis.
Gee-Gee—See Gross-Given Mig Co

Wis.

Gee-Gee—See Gross-Given Mfg Co
Gross-Given Mfg Co 301 Chestnut St St

Gee-Gee-See Gross-Given Mig Co 301 Chestnut St St Paul 2 Minn "Gee-Gee" Hammer Blow Tool Co., 6021/4 Third St., Wausau, Wis. "Bull Dog." "Back-In

Hammer Blow
Wausau, Wis. "Bull Dog. Bauan
Hitch."
Holland Hitch Co., 430 W. 18th St., Holland,
Mich.
Ideal Mfg Co 1107 S 7th St Oskaloosa Iowa
Independent Iron Works Inc 8th & Pine Sts
Oakland 20 Calif "Baker Hitch-Master"
McCabe Power Body Co 5900 N Broadway St Louis 15 Mo
McKay Co., 1005 Liberty Ave., Pittsburgh
22, Pa. "McKay Klip Lock." (Emergency
chain.)

McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Kilp Lock." (Emergency chain.) Marvel Industries Inc Sturgis Mich (House tercury Mfg Co 4700 W Division St Chicago 51 Ill

gon—See Wood-Williams-Copp Mfg Co tier Mfg Co 4434 S E 25th Ave Portland

Paragon—See Wood-Williams-Copp Mfg Co
Premier Mfg Co 4434 S E 25th Ave Portland
2 Ore
Quick-Lock—See Foreman Mfg Co
Quick Mount—See Burch Corp
Rapids Equipment Co B Ave & Sixth St
N W Cedar Rapids lowa (Cabin; sole distributors, Rapids Products Co., 220 Sixth
St., N. W., Cedar Rapids, Iowa.)
Slimp Axle Products Highway 99 West
(P. O. Box 449) Cotton Calif
Snapping Turtle—See Berluti Mfg. Co.
Utility Tool & Body Co 151 E 16th St Clintonville Wis "Eagle"
Valley Tow-Rite Industries 1231 S Sacramento St Lodi Calif
Weber Trailer & Mfg Co 5400 E Slauson Ave
Rivera Calif (Mailing address P O Box 2473
Los Anceles 34 Calif)
Wood-Williams-Copp Mfg Co 3239 W Michigan Ave Ypsilanti Mich "Paragon"

COUPLINGS, BELT-See Fasteners, Belt COUPLINGS. COMPRESSION - See Fittings

Tube

COUPLINGS, Electro-Magnetic

Eaton Mfg Co Dynamatic Div 3307 14th Ave Kenosha Wis

COUPLINGS, Flexible

(See also Joints, Universal)

(See also Joints, Universal)

Airflex—See Falk Corp

Ajax Flexible Coupling Co Portage & English
Sts Westfield N J "Ajax" "Ajax-Dihedral"

Apex Machine & Tool Co 1025 Patterson Blvd
Davton Ohlo

Baush Machine Tool Co 156 Wason Ave
Springfield 7 Mass
Boston Gear Works Div Murray Corp 14
Hayward St Quincy 71 Mass
Brown Engineering Co 131 N 3rd St Reading
Fa "Buffer-Slot—See Brown Engineering Co.
Chain Belt Co 4732 W Greenfield Ave Milwaukee 1 Wis "Rex"

Chicago Die Casting Mfg. Co., 2510 W. Mon-

kee 1 Wis "Rex"
Chicago Die Casting Mfg. Co., 2510 W. Monros St., Chicago 12, Ill.
Clevite Harris Products Inc 6545 Carnegie
Ave Cleveland 3 Ohio "Torfiex"
Climax Metal Products Co 867 E 140th St
Cleveland 10 Ohio
Congress Die Casting Div Tann Corp 3750 E
Outer Drive, Detroit, Mich.
Cullman Wheel Co., 1344 Altgeld St., Chicago
14, Ill.
Diamond Chain Co., 402 Kentucky Ave., In-

Diamond Chain Co., 402 Kentucky Ave., In-dianapolis 7, Ind.

Dodge Mfg Corp 500 Main St Mishawaka Ind "Flexidyne"

Falk Corp Milwaukee Wis "Airflex" &
"Steelflex" (Shaft)

Farrel-Birmingham Co 97 Main St Ansonia

"Steelnex" (Shart)
Farrel-Birmingham Co 97 Main St Ansonia
Conn "Farrel Gearflex"
Flexidyne—See Dodge Mfg Corp
Francke—See John Waitron Corp.
Jones Machinery Div Hewitt-Robins Inc.
4401 Roosevelt Rd Chicago 24 Ill
Kanti-Level—See Brown Engineering Co.
Link-Belt Co Prudential Plaza Chicago 1 Ill
Lord Mfg. Co., 1635 W. 12th St., Eric, Pa.
Lovejoy Flexible Coupling Co 5000 W Lake
St Chicago 44 Ill
Marmon Div Aeroquip Corp 11214 Exposition
Blvd Los Angeles 6 Calif
Morflex—See Morse Chain Co
Morse Chain Co Ithaca N Y "Morflex"
Philadelphia Gear Works, Erle Ave. & G St.
Philadelphia

Rex—See Chain Belt Co Root Co., B. M., Prospect & Sherman Sts., York, Pa. Sler-Bath Gear & Pump Co 9252 Hudson Blvd North Bergen N J Steelflex—See Falk Corp

Steenex—See Fank Corp Torflex—See Clevite Harris Products Inc Union Chain & Mfg Co Sandusky Ohio Waldron Corp John P O Box 731 New Bruns-wick N J "Francke" "Waldron" Whitney Chain Co 237 Hamilton St Hartford Wood's Son Co T B Chambersburg Pa
"Wood's Sure-Grip"

COUPLINGS, Fluid Line

Aeroquip Corp 300 S East Ave Jackson Mich Aro Equipment Corp Bryan Ohio Hansen Mfg Co 4031 W 150th St Cleveland

COUPLINGS, Fluid (Machinery)

win Disc Clutch Co., 1328 Racine St., Racine, Wis.

COUPLINGS, Fluid, Torque Converter (Truck)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich St COUPLINGS,

OUPLINGS, GENERATOR—See Couplings, Magneto, Generator and Water Pump

99 West COUPLINGS, Magneto, Generator and Water Pump

American Bosch Div American Bosch Arma Corp 3664 Main St Springfield 7 Mass (Magneto) (Magneto) Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohlo Hardy Mfg Corp W Pearl St Union City Ind Thermoid Co Whitehead Rd Trenton 8 N J

COUPLINGS, TUBE-See Fittings, Tube

COVERINGS, Floor (Bus or Truck) Armoflor-See Armstrong Cork Co., Industrial Div

trial Div.

Armstrong Cork Co Industrial Div Lancaster
Pa "Armstrong's" "Automat" "Armoflor"
"Traffex" (Linoleum)
Automat—See Armstrong Cork Co., Industrial Div.
Moore & Co., Samuel, Mantua, Ohio. "Rub—Bub." (Synthetic rubber.)
Rub—Bub—See Samuel Moore & Co.
Traffex—See Armstrong Cork Co.

COVERS, AUTOMATIC RADIATOR — See Shutters, Radiator

(Stamped or turned metal dustproof covers for oil holes)

Bay State Stamping Co., 372 Chandler St., Worcester, Mass. "Bennett."
Rennett—See Bay State Stamping Co.
Bowen Products Corp Auburn N V
Gits Bros. Mfg. Co., 1846 S. Kilbourn Ave., Chicage 23, Ill.
Hill Nut Co., 2620 W. Flournoy St., Chicage 12, Ill.

12. III. Kickhaefer Mfg Co 903 S Second St Milwau-kce 4 Wis Tucker, Inc., W. W. & C. F., 618 Capitol Ave., Hartford 6, Conn. W. W. & C. F., 618 Capitol

COVERS, Storage Battery

Ace—See American Hard Rubber Co.
American Hard Rubber Co Div Amerace
Corp Ace Rd Butler N J "Ace"
Gould-National Batteries Inc Industrial Div
467 Calhoun St Trenton 7 N J

Richardson Co 2667 Lake St Melrose Park Ill "Yalvseal" Stokes Molded Products Div of Electric Stor-age Battery Co Taylor & Webster Sts Trenton 4 M J (Rubber and plastic) Valvseal—See Richardson Co

American Hoist & Derrick Co 2511 W Taylor St Fort Wayne I Ind Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill Bantam—See Schield Bantam Co Hanson Clutch & Machinery Co Wall &

Hanson Clutch & Machinery Co Wall & Miami Sts Tiffin 15 Ohio
Hughes-Keenan Div U S Air Conditioning Corp P O Box 360 Delaware Ohio
Hyster Co 2880 N E Clackamas St Portland

-Belt Speeder Corp., 1201 Sixth St., W., Cedar Rapids, lowa. co 1007 N W 36th St Oklahoma City 18 Link-Belt

Okla Schield Bantam Co Waverly Iowa "Bantam" Silent Hoist & Crane Co 841 63rd St Brook-lyn 20 N Y Star Machine & Tool Co 201 6th St SE Min-neapolis 14 Minn Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio

CRANES, Electric Traveling

CRANES, Electric Traveling

Cleveland—See Heavy Machine Div Cleveland Crane & Engrg Co

Cleveland Tramrail—See Cleveland Crane & Engrg Co

Cleveland Crane & Engineering Co 5866 E

283rd St Wickliffe Ohio "Cleveland Tramrail" (Under-running)

Conco Engineering Works, Div. of H. D

Conkey & Co., Mendota, Ill.

Detroit Hoist & Machine Co 3216 Morrow

St Detroit 11 Mich

Euclid Crane & Hoist Co., Euclid, Ohio.

Harnischfeger Corp., 4409 W. National Ave.,

Milwaukee, Wis. "P. & H." (Overhead.)

Heavy Machine Div Cleveland Crane & Engrg

Co 5867 E 389th St Wickliffe Ohio "Cleveland" (Overhead)

Industrial Crane & Hoist Ingersoll Products

Div Borg-Warner Corp 1536 S Paulina St

Chicago & Ill

Louden Machinery Co., 1102 West Ave.,

Fairfield, Iowa.

Manning Maxwell & Moore Inc Shaw-Box

Crane & Hoist Div Park & Broadway

Muskegon Mich

Michigan Crane & Conveyor Co 115 N Mc
Kinstry St Detroit 9 Mich

Morgan Engineering Co Broadway & C &

PRR Alliance Ohio (Overhead)

Northern Engineering Wks 210 Chene St

Detroit 7 Mich

P. & H.—See Harnischfeger Corp.

R & M—See Robbins & Myers, Inc.

Reading Pa

Robbins & Myers, Inc., 1345 Lagonda Ave.,

Springfield, Ohio. "R & M"

Round & Son David Box 883 Cleveland 22

Ohio (Overhead)

springfield, Ohlo, "R & M" Round & Son David Box 883 Cleveland 22 Ohio (Overhead) Shepard Niles Crane & Hoist Corp Montour Falls N Y

Whiting Corp 157th & Lathrop Sts Harvey

Wright Hoist Div of American Chain & Cable Co York Pa

CRANES, Hand Traveling

C-M-See Chisholm-Moore Hoist Div Chisholm-Moore Hoist Div Columbus Mc-Kinnon Chain Corp Fremont Ave Tona-wanda N Y "C-M" Cleveland Crane & Engineering Co 5866 E 283rd St Wickliffe Ohio "Cleveland Tram-

rail"
Conco Engineering Works, Div. of M. D.
Conkey & Co., Mendota, I!!
Detroit Hoist & Machine Co \$216 Morrow
St Detroit II Mich
Euclid Crane & Hoist Co Fucilió Ohlo
Harnischfeger Corp 4400 W National Ave
Milwaukee Wis "P & H"
Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa

Industrial Crane & Hoist Ingersoil Products Div Borg-Warner Corp 1526 S Paulina St Chicago S III Louden Machinery Co., 1102 West Ave., Fair-

Chicago Chon Machinery Co., 1102 West Ave., field, lowa. Manning Maxwell & Moore Inc Shaw-Box Crane & Holst Div Park & Broadway Muskegon Mich. Engineering Works 210 Chene St

Muskegon Mich
Northern Engineering Works 210 Chene St
Detroit 7 Mich
P & H—See Harnischfeger Corp.
R & M—See Robbins & Myers, Inc.
Reading Crane & Hoist Corp 2140 Adams
St Reading Pa
Robbins & Myers, Inc., 1345 Lagonda Ave...
Springfield, Ohio. "R & M."
Round & Son David Box 883 Cleveland 22
Ohio (Overhead)
Shepard Niles Crane & Hoist Corp Mon-Ohio Shepard

hepard Niles Crane & Hoist Corp Mon-tour Falls N Y tour Falls N Y
Speidel Elevator Corp W Buttonwood & Gordon Sts Reading Pa
Stratton Equipment Co 2030 E 105th St
Cleveland 6 Ohlo
Uhrden Inc 508 Grant St Dennison Ohlo

Whiting Corp 157th & Lathrop Sts Harvey Wright Hoist Div. of American Chain & Cable Co., York, Pa.

CRANES, Mobile (Gasoline or Diesel Operated)

Austin-Western—See Baldwin-Lima-Hamil-ton Corp)

Austin-Western—See Baldwin-Lima-Hamilton Corp.

Baldwin-Lima-Hamilton Corp. Philadelphia
7 Pa "Austin-Western"
Hanson Clutch & Machinery Co., Wall &
Miami Sts., Tiffin 15. Ohlo.
Harnischfeger Corp 4400 W National Ave.
Milwaukee Wis "P & H" (Gasoline)
Hughes-Keenan Div U S Air Conditioning
Corp. P. O Box 360 Delaware Ohlo "Roustabout"

Hyster Co. 2898 N. E. Clackamaa St. Portland.

Hyster Co 2980 N E Clackamas St Portland Ore

8 Ore
Krane Kar—See Silent Hoist & Crane Co
Lift-O-Crane—See Silent Hoist & Crane Co
P & H—See Farnischfeger Corp,
Roustabout—Se. Hughes-Keenan Corp
Silent Hoist & Crane Co 84 63rd St Brooklyn 20 N Y "Krane Kar" "Steve Krane"
"Lift-O-Crane" (Gasoline)
Steve Krane—See Silent Hoist & Crane Co

CRANES, Monorail

American Monorail

American Monorail

American Monorail

American Monorail

Cleveland 7, Ohio.

Cleveland Crane & Engr Co 5866 E 283rd St Wickliffe Ohio

Detroit Holst & Machine Co 8216 Morrow St Detroit 11 Mich

Harnischfeger Corp 4400 W National Ave Milwaukee Wis "P & H"

Industrial Crane & Holst Ingersoil Products Div Borg-Warner Corp 1536 S Paulina St Chicago S III

Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.

Northern Engineering Works 210 Chene St Detroit 7 Mich

P & H—See Harnischfeger Corp

Tubarcranes—See Uhrden Inc

Uhrden Inc 508 Grant St Dennison Ohio

"Tuharcranes"

Unit Mig Co 1229 Harmon Pl Minneapolis 3

Winn

Ven Corn 2828 Newell St Los Angeles 39

Calif (Electric)

Watson Tow Boy" "Watson Tow Master" (Fifth wheel)

Weid-Ruilt Radw Co 5503 Preston Court Brooklevn 34 N V

CRANKCASF ATTACHMENTS—See Cleaners, Air (Crankcase Breather), also Plugs, Crankcase Drain

CRANKING MOTORS—See Motors, Starting (Air); also Motors, Starting (Electric)

CRANES, Portable (Electrically Operated)

Barrett-Cravens Co 630 Dundee Rd North-brook III

brook III Elpar—See Elwell-Parker Electric Co Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio "Elpar" (Also gas-

electric)
L-S-See Lewis-Shepard Products Inc
Lewis-Shepard Products Inc 1050 Walnut St
Watertown 72 Mass "L-S"
Sassen Derrick Co., 3101 W. Grand Ave.
Chicago 22, Ill.

CRANES, Portable (Hand Operated)

CRANES, Portable (Hand Operated)
(See also Blocks or Holats, Chain)
Baker Mfg. Co.. 154 W. Water St., Kankakee. Ill. "Hercules."
Blue Heron—See Cam Tool Co.
Bradney Machine Co., 70 Monhagen Ave.,
Middletown, N. Y.
C-M—See Chisholm-Moore Hoist Div
Cam Tool Co 1038 Larkin St San Francisco
Calif "Blue Heron"
Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y "C-M"
Hercules—See Baker Mfg. Co.
Houdaille Industries Inc Manzel Div 315
Babcock St Buffalo 10 N Y (Hydraulic)
Industrial Crane & Hoist Ingersoll Products
Div Borg-Warner Corp 1536 S Paulina St
Chicago 8 III

L-S-See Lewis-Shepard Products Inc Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohlo. (Hydraulic.) Lewis-Shepard Products Inc 1050 Walnut St Watertown 72 Mass "L-S"

Watertown 72 Mass "L-S"
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 13 Wis
Manning Maxwell & Moore Inc Shaw-Box
Crane & Hoist Div Park & Broadway Muskegon Mich

Son David Box 883 Cleveland II CUPS, Leather Regon Mich Round & Son David Box 883 Cleveland III Ohio (Hydraulie) Ruger Equipment Inc 615 W 4th St Uhrichs-ville Ohio (Hydraulie) Sasgen Derrick Co 3101 W Grand Ave Chi-

cago 22 Ill Star Machire & Tool Co 201 6th St Min-neapolis 14 Minn (Hydraulic) Unit Mfg Co 1229 Harmon Pl Minneapolis 3

CRANES, Service Truck

Auto Truck Steel Body Co 3040 Carroll Ave Chicago 12 Ill Blue Heron—See Cam Tool Co Burtchaell Heating Co 2944 S E Powell Blvd Portland 2 Ore "Pacific" (Electric) Cam Tool Co 1038 Larkin St San Francisco Calif "Blue Heron" Cemco Industries Inc Galion O (Fifth wheel) Gar Wood Industries Inc Wayne Mich Guibert Steel Co 4001 Windgap Ave Pittsburgh 4 Pa "Sup-R-Guy" Hab—See Stanco Mfgs & Sales Inc Hito—See Howell Industrial Truck Co Holmes Co Ernest 2506 E 43rd St Chattannosca 7 Tenn

Hitco—See Howell Industrial Truck Co
Holmes Co Ernest 2506 E 43rd St Chattanooga 7 Tenn
Howell Industrial Truck Co 1083 Erie Clift
St Cleveland 7 Ohio "Hitco"
Hubbard Mfg. Co., Farmiand Ind.
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 13 Wis
Pacific—See Burtchaell Heating Co.
Ruger Equipment Inc 615 W 4th St Ulrichsville Ohio (Hydraulic)
Sassen Derrick Co., 3101 W. Grand Ave.,
Chicago 22. Ill
Silent Holst & Crane Co 841 63rd St Brooklyn
20 N Y
Stanco Mfgs & Sales Inc 1666 Ninth St Santa
Monica Calif "Hiab"
Stimmel Winch Co., 37-24 33rd St., Long
Island City 1, N. Y
Stratton Equipment Co 2030 E 105th St

Island City 1, N. V.
Stratton Equipment Co 2030 E 105th St
Cleveland 6 Ohio
Sun-R-Guy—See Guibert Steel Co
Tubarcranes—See Uhrden Inc
Uhrden Inc 508 Grant St Dennison Ohio
"Tubarcranes"

CRANKING MOTORS—See Motors. St (Air); also Motors, Starting (Electric)

CRANKPIN GRINDING MACHINES — See Machines, Grinding (Crankpin)

CRANKSHAFT BEARING GRINDING MA. CHINES—See Machines, Grinding (Crank-

CRANKSHAFTS, Cast

Camphell Wvant & Cannon Foundry Co Muskegon Mich "Proferall" Central Foundry Div General Motors Corp 37 Florence Ave Saginaw Mich Proferall—See Campbell, Wyant & Cannon Foundry Co

CRANKSHAFTS, Finished

(For crankshafts in the rough—see Crankshafts [Forgings]) Atlas Industries Inc 2000 E Main St Woodville Ohie
Continental Motors Corp., Muskegon 82,
Mich.
Ohio Crankehaft Co., 2800 Harvard Ave. Cleveland 5 Ohio

CRANKSHAFTS (Forgings)

Rethlehem Steel Co.. Bethlehem. Pa.
Finkl & Sons Co.. A.. 2011 Southport Ave.,
Chicaro 14. III. "Mo-Lyb-die."
Ladieh Co.. 5481 S Packard Ave Cudahy Wis
Mo-Lyb-die—See A. Finkl & Sons Co..
Park Drop Forge Co 777 E 78th St Cleveland teel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio

Transue & Williams Steel Forging Corp 562
Ely St Alliance Ohio
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Willys Motors Inc Drop Forge Div N Cove
Rd Toledo 1 Ohio
Wyman-Gordon Co 105 Madison St Worcester 1 Mass

ter 1 Mass

CUPS, Leather
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Burgess Leather Co., A. E., Brigham Hill Rd. Grafton, Mass.
Chicago Rawhide Mfg Co 1301 Elston Ave Chicago 22 Ill "Sirvis"
Circle Z RFD #2 Promfret Center Conn Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill. "X-L."
Graton & Knight Co., 256 Franklin St., Worcester 4, Mass.
Marsh Co., Charles W., 32 Hudson St., Muskegon, Mich. "Thermo."
Rhoads & Sons, J. E., 35 N. Sixth St., Philadelphia 6, Pa.
Sirvis—See Chicago Rawhide Mfg Co Thermo—See Charles W. Marsh Co.
X-L—See Excelsior Leather Washer Mfg. Co.

CUPS, Oil and Grease

American Stamping Co 310 E Burnham St Battle Creek Mich Gits Bros Mfg Co 1846 S Kilbourne Ave Chicago 23 Ill (Oil)

CUPS, Priming

Valve Co 6201 Oakton St Morton Grove Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III Lincoln Brass Works 2067 12th St Detroit 16

CUPS and CONES. Ball

Crosby Co., 183 Pratt St., Buffalo, N. Y. CURRENT REGULATORS — See Regulators Generator Current & Voltage (Auto)

CUSHIONS, Die

Bliss Co E W 1375 Raff Rd S W Canton O Clearing Machine Corp., 6499 W. 65th St., Chicago 38, III.
Danly Machine Specialties Inc 2100 S Laramie Ave Cicero Chicago 50 III
Federal Machine & Welder Co 1745 Overland
Ave Warren Ohio "Warco"
Verson Allsteel Press Co., 93rd St. & Kenwood Ave. Chicago, III.
Warco—See Federal Machine & Welder Co Chicago 38, Ill.

CUSHIONS, Seat (Rubber)

Airubber—See New York Rubber Corp.
Black Diamond—See Karpex Mfg Co
Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4. Wis.,
Dunlop Tire & Rubber Corp Sheridan Drive
& River Rd Buffalo 5 N Y "Dunlop Pillo
Foam"

& Foam'

Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio "Foamex" (Foamed

Parkway Akron Onto Foamea (Foamea latex)

Foamex—See Firestone Tire & Rubber Co General Seating Co 220 Main St Topton Pa Goodrich Co E F Sponge Products Howe Ave Shelton Conn "Texfoam"

Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Restfoam"

Karpex Mfg Co 1436 E 19th St Indianapolis 7 Ind "Black Diamond" (Truck)

New York Rubber Corp Airubber Div 100 Park Ave New York 17 N Y "Airubber" (Inflatable)

Perma Seating Co 8770 Kinsman Rd Cleve-

(Infatable)
Perma Seating Co 8770 Kinsman Rd Cleveland 4 Ohio
Restfoam—See Hewitt-Robins Inc
Texfoam—See H F Goodrich Co Sponge
Products Div
United States Rubber Co Rockefeller Center
1230 Ave of the Americas N Y 20 N Y
"U S Koylon"

CUSHIONS, Seat (Spring)

(Including springs and upholstery) Better Built-See Goshen Cushion & Body Co.

Bostrom Mfg. Co., 123 W. Oregon St., Milwaukee 4, Wis.
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S.,
Pittsburgh 33 Pa
General Seating Co 220 Main St Topton Pa

CUSHIONS, Seat (Spring)-continued

Goshen, Ind. "Better Bulk."

Perma Seating Co 8770 Kinsman Rd Cleveland 4 Ohlo

Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

CUT-OUTS, Reverse Current

(For automatically connecting generator to battery when voltage is high enough to charge battery and disconnecting it when voltage is too low.)

American Motor Products Co., Fond du Lac, Wis. "Ampco." Ampco—See American Motor Products Co. Blue Streak—See Standard Motor Products,

Inc.

Behlin Mfg Co U S Route 1 Branford Conn
Electra Mfg Co 800 N 21st St Independence
Kans
F. & B. Mfg. Co., 4248 W. Chicago Ave.,
Chicago 61, Ill. "Filko."
Filko—See F. & B. Mfg. Co.
Freedco Products Inc 36-08 33rd St Long
Island City 6 N Parts Co.
Guaranteed Parts Co.
Guaranteed Parts Co., Seneca Falls, N. Y.
"GP"
Kem Mfg. Co., 20-21 Wagaraw Rd. Fair

Mfg. Co., 20-21 Wagaraw Rd., Fair

"GP"

Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich, "Mapco."
Mapco—See Machined Parts Corp.
National—See Wheel Parts & Mfg Co.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11 N Y "Nimco"
New York 11 N Y "Nimco"
New York Coil Co 42 Second Ave Phoenix-ville Pa "Nyco"
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Nimco—See National Ignition Mfg. Co.
Nyco—See New York Coil Co
Ohio Mfg Co 924 S Theresa Ave St Louis 3
Mo

Ohio Mfg Co 324 & Theresa Ave St Louis 3

Mo

P & D Mfg. Co., 1902 Steinway St., Long
Island City, L. I., N. Y.

Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St
Newark 2 N J)

Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.

R-B-M Div., Essex Wire Corp., Chestnut &
Hanna Sts., Logansport, Ind.

Surensen Mfg Co P 32-31 57th St Woodside

77 N Y

Standard Motor Products Inc 37-18 Northern Bivd., Long Island City, L. I., N. Y.

"Blue Streak."

Super Go—See Wells Mfg. Corp.

Switches Inc 317 E Ontario St Chicago Ill

Vulcan—See Paragon Products Corp

Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis "Super Go" "Wells"

Wheel Parts & Mfg Co 352 Fourth Ave
N Y 10 N Y "National"

CUTTER GRINDERS—See Machines, Grinding (Reamer and Cutter)
CUTTERS, BAR—See Cutters, Rod and Bar

CUTTERS. Belt

Allgator—See Floxible Steel Lacing Co. Clipper Belt Lacer Co., 974 Front Ave., N. W., Grand Rapida 2, Mich. Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill. "Alligator."

CUTTERS, Deburring

Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich

CUTTERS, Electrode Dressing

Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich

CUTTERS, GASKET-See Cutters, Washer and Gasket

CUTTERS, Gear

National Tool Co 11200 Madison Ave Cleve-land 2 Obio "National-Cleveland"

CUTTERS, Keyway

Brown & Sharpe Mfg Co 235 Promenade St Providence R I Continental—See Ex-Cell-O Corp Continental Tool Works Div Cowles Tool Co 2036 W 110th St Cleveland Ohlo
Davis Keyseater Co 1239 University Ave
Rochester 7 N Y
Do All Co 254 N Laurel Ave Des Plaines Ill Ex-Cell-O Corp., Continental Tool Works Div., 1200 Oakman Blvd., Detroit 32, Mich. "Continental."

"Continental."

Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich. 23, Mich. 23, Mich. 24, Mich. 25, Mich. 25, Mich. 26, Mich. 26,

CUTTERS, Milling

Air Line—See Cowles Tool Co Apex Tool & Cutter Co 235 Canal St Shelton

Apex Tool & Cutter Co 235 Canal St Shelton Conn Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich Barber-Colman Co 1300 Rock St Rockford Ill Brown & Sharpe Mfg Co 235 Promenade St Providence R I Butterfield—See Union Twist Drill Co Butter-

Providence R 1
Butterfield—See Union Twist Drill Co Butterfield Div
Cleveland Twist Drill Co 1242 E 49th St
Cleveland 14 Ohio
Continental—See Ex-Cell-O Corp., Continental Tool Works Div.
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio. "Air Line," "Rigid Back"
(Serrated blade.)
Curvex—See Pratt & Whitney Co
Detroit Milling Cutter Co 28625 Grand River
Ave Farmington Mich "Futurmill"
Do All Co 254 N Laurel Ave Des Plaines III
Douglas Tool Co 2300 E Nine Mile Rd Hazel
Park Mich "Douglas Hi-Helix" (Contour)
Ex-Con-O-Mill—See Galring Tool Co.
Ekstrom Carlson & Co 1400 Railroad Ave
Rockford III (Spiral flute)
Ex-Cello-O Corp Continental Tool Works
Div 1200 Oakman Blyd Detroit 32 Mich
"Continental"

Div 1200 Oakman Bivd Detroit 32 Mich "Continental"
Ford Mfg Co M A P O Box 628 Davenport Iowa (Carbide)
Futurmill—See Detroit Milling Cutter Co Gairing Tool Co 21221 Hoover Rd Detroit 22 Mich "Ge-Con-O-Mill" "Gair-Lock"
Gair-Lock—See Galring Tool Co Goddard & Goddard Co, 12280 Burt Rd., Detroit 23, Mich. "Go & Go."
Go & Go.—See Gaddard & Goddard Co.
H W—See Hanson-Whitney Co
Hall Planetary Co of Philadelphia 5561 Baynton St Philadelphia 44 Pa "Verac" (Thread blades)
Hanson-Whitney Co 169 Bartholomew Ave

Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn "H W" Haynes Stellite Co 725 S Lindsay St Kokomo Ind

Ind
ideal Industries, Inc., 1014 Park Ave., Sycamore, Ib. "Ideal Long Life." (Mica.)
Illinite—See Illinois Tool Works
Illinois Tool Works 2501 N Keeler Ave
Chicago Ill "Illinite"
Ingersoil Milling Machine Co Rockford Ill
J & S Tool Co \$7 Doraa Ave Livingston N J
Jarvis Corp Middletown Conn
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis
Rennsmetal Inc. Livyd Ave. Latrobe Pa

Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide)

Kroslok-See Motch & Merryweather Machinery Co
Lovejoy Tool Co., 123 Main St., Springfield,
Vt.

Vt.
McCrosky Tool Corp., 8. Main St.. Mead-ville, Pa. "McCrosky Jack-Lock."
Manchester—See Portage Double Quick Inc Martindale Electric Co., 1340 Hird Ave., Cleveland 7 Ohio Meyers Co W F 1017 14th St Bedford Ind "Meyor"

Motch & Merryweather Machinery Co 715
Penton Bldg Cleveland 13 Ohlo "Kroslok"
National Tool Co 11200 Madison Ave Cleveland 2 Ohlo "National-Cleveland"
National Twist Drill & Tool Co., Rochester,

Mich.

Nelco Tool Co 266 Center St Manchester Conn (Carbide tipped)

O K Tool Co Milford N H

Portage Double Quick Inc 1633 Sweitzer Ave Akron Ohio "Manchester"

Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Curvex"

Precise Products Corp 3715 Blue River Rd Racine Wis

Precise Produ Racine Wis

Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich. Reitool Corp 4540 W Burnham St Milwau-kee 46 Wis

Rigid Back—See Cowles Tool Co. Ri-idoutt—See Wesson Tool Co Se erance Tool Industries Inc 711 Iowa Rd Saginaw Mich (Carbide)

Standard Tool Co 8950 Chester Ave Cleve-land 14 Ohio

Staples Tool Co 2352 Glendale-Milford Rd Cincinnati 15 Ohio
TCT—See Tungsten-Carbide Tool Co.
T-J—See Tomkins-Johnson Co.
Tomkins-Johnson Co., 617 N. Mechanic St.,
Jackson, Mich. "T-J."
Tungsten-Carbide Tool Co 26250 W 7 Mile
Rd Detroit 19 Mich "TCT"
Union Twist Drill Co Monroe St Athol Mass
Union Twist Drill Co Butterfield Div Derby
Line Vt "Butterfield"
V-R-See Vascoloy-Ramet Corp
Vascoloy-Ramet Corp
Vascoloy-Ramet Corp 800 Market St Waukegan Ill "V-R"
Verac—See Hall Planetary Co of Philadelphia
Viking Tool Co 1000 Nichols Rd Shelton
Conn

Conn W-S-See Wendt-Sonis Co. Weldon Tool Co 3000 Woodhill Rd Cleveland

Vendt-Sonis Co 10th & Collier St Hannibal

Mo "W-S"
Wesson Tool Co 12200 Woodward Heights
Blvd Ferndale 20 Mich "Rigidcutt"
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis,
Willey's Carbide Tool Co., 1340 W. Vernon
Highway, Detroit 1, Mich.

CUTTERS, Rod and Bar

(Hand power)

(Hand power)
Di-Acro-See O'Neil-Irwin Mfg Co
Farrell-Cheek Steel Co Ft First St Sandusky
Ohio
Hercules—See W. W. & C. F. Tucker, Inc.
J & S Tool Co 37 Dorsa St Livingston N J
Lewthwaite Machine Co., T. H., 324 E. 47th
St., New York 17, N. Y. "THL"
O'Neil-Irwin Mfg. Co., Lake City, Minn.
"Di-Acro."

"DI-Acro."
Porter, Inc., H. K., 74 Foley St., Somerville, 43, Mass. "Porter HKP."
THL—See T. H. Lewthwaite Machine Co. Tucker, Inc., W. W. & C. F., 618 Capitol Ave., Hartford, Conn. "Hercules."

CUTTERS, ROTARY—See Saws and Cutters, Hole or Rotary

CUTTERS, Sheet Metal

(For use with portable electric drills or air compressors)

Chicago Pneumatic Tool Co & E 44th St N Y 17 N Y "Zip-Gun" (Preumatic) Fenway Machine Co 3107 N Broad St Phila-delphia Pa

delphia Fa. ImpaCutter—See Ingersoil-Rand Co Ingersoil-Rand Co 11 Broadway N Y 4 N Y "ImpaCutter" (Pneumatic)
M-M-A Inc Coho Bidg Lancaster Pa "Royal

Clipper"
Zip-Gun—See Chicago Pneumatic Tool Co

CUTTERS, Tubing

(Hand power)

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 30 Ill Blackhawk—See New Britain Machine Co Cai-Van Machine Products Inc 809 S Water St Jackson Mich Cornwell Quality Tobis Co Mogadore Ohio Dorman Products Inc 1004 Sycamore St Cin-

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, Ill.
Bedelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Eroc."
Ercc.—See E. Edelmann & Co.
Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ill
Exello Accessories Mfrs., Inc., 81 Madison
Ave., Hempstead, N. Y.
Herbrand Div Bingham-Herbrand Corp Lake
& Stone Sts Fremont Ohio

& Stone Sts Fremont Ohio
Hi-Duty—See Imperial Brass Mfg Co
Imperial Brass Mfg Co
Chicago 31 Ill "Hi-Duty" & "Imperial"
Kennedy Service Tools Inc 788 Evans Ave

Akron 5 Ohio
Kent-Moore Organization Inc 1501 S Jackson
St Jackson Mich
Miller Co L B 336 W Main St Stamford Conn
National Machine & Tool Co., 4077 Page
Ave., Jackson, Mich.
New Britain Machine Co Hand Tools Div
South St New Britain Conn "Blackhawk"

New Britain One Co.
Owatonna Tool Co.
Owatonna Tool Co., 342 N. Cedar St., Owatonna Minn.
O'TC."
Papoo—See Ren. Brass & Copper Co.
Parker-Hannifin Corp Parker Fittings & Hose University 17328 Euclid Ave Cleveland 12

Ohio Penn Brass & Copper Co 3837 W 20th St Eric Pa "Papco" Quality Tools Corp Railroad St New Wil-mington Pa

Reed Mfg Co Box 1321 Erie Pa (Pipe) Rimac—See Rinck-McIlwaine Inc Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac" Severance Tool Industries Inc 711 Iowa Rd

N Y "Rimac"
Severance Tool Industries Inc 711 Iowa Rd
Saginaw Mich
Simonds Saw & Steel Co 470 Main St
Fitchburg Mass
Trimo—See Trimont Mfg Co
Trimont Mfg Co Div of St Pierre Chain Corp
50 Frank St Worcester 4 Mass "Trimo"
Weatherhead Co Fort Wayne Div 128 W
Washington Bivd Fort Wayne Ind

CUTTERS, Washer and Gasket

CUTTERS, Washer and Gasket
Cincinnati Tool Co 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave"
Ciark Co., Robert H., \$230 Santa Monica
Blyd., Beverly Hills. Calif.
Felt Products Mfg Co 7450 N McCormick
Blyd Skokie III
Goodell-Pratt.—See Millers Falls Co.
Hargrave—See Cincinnati Tool Co.
Millers Falls Co., Greenfield, Mass. "GoodellPratt.
Osborne & Co., C. S., Jersey & Second Sts.,
Harrison, N. J.
Rovtar Tool-Die Mfg Co 2230 S Wood St
Chicago 8 III
Wyzenbeek & Staff Inc 223 N California Ave
Chicago 12 III

CUTTING ALLOYS-See Alloys, Cutting

CUTTING DIES, for LEATHER and FABRICS
—See Dies, Cutting, for Leather, Fabrics
and Rubber

CUTTING OILS - See Compounds, Cutting

CUTTING OIL FILTERS—See Filters, Cutting

CUTTING OFF MACHINES—See Machines, Cutting-off

CUTTING TOOLS-See Tools, Cutting

CYLINDER CASTINGS-See Castings, Gray

CYLINDER GAGES—See Gages, Cylinder; also Gages, Cylinder Compression

CYLINDER HEADS-See Heads, Cylinder

CYLINDER HEAD MILLING MACHINES See Machines, Milling (Cylinder Head)

CYLINDER HEAD TESTING MACHINES— See Machines, Testing (Cylinder Head)

CYLINDER HEAD VOLUME TESTERS—See Testers, Cylinder Head Volume

CYLINDER MACHINERY AND TOOLS—See Hones, Cylinders; also Machines, Boring; also Machines, Grinding (Cylinder); also Ma-chines, Honing (Cylinder); also Reamers and Jigs, Cylinder

CYLINDER SLEEVES-See Sleeves, Cylinder CYLINDRICAL GAGES-See Gages, Cylindri-

CYLINDRICAL GRINDERS - See Machines, Grinding

CYLINDERS, Air and Hydraulic

Baker Bros Inc P O Box 101 Sta F Toledo
10 Ohlo
Hannifin Co 615-D S Wolf Rd Des Plaines Ill
Miller Fluid Fower Div of Flick-Reedy
Corp 2040 N Hawtherne Ave Melrose Park
Ill
DIAMONDS, Industrial
(See also Alloys, 6
more Square, Boston 15,
Dearborn Glass Co., 2414

Ortman-Miller Machine Co 19 143rd St Hammond Ind S-P Mfg Corp 30201 Aurora Rd Solon Ohio Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio Tonkins-Johnson Co 617 N Mechanic St

Jackson Mich

DAMPERS, Vibration (Engine)

Houdaille Industries Inc Buffalo Hydraulics Div 537 E Delavan Ave Buffalo 11 N Y (Torsional)

(Torsional)
taybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M"
ichwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind (Torsional)
vorld Beston Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

DASH SIGNAL INDICATORS—See Lamps, Tell Tale

DASHES, Metal

(See also Boards, Instrument)
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich. Auto-Lite—See Electric Auto-Lite Co

Cutler Metal Products Co., 1025 Line St., DIE HEADS, Self-Opening Camden, N. J. Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Hamlin Metal Products Co 2741 Wingate Ave

Hamiin Metal Products Co 2761 Wingate Ave Akron 19 Ohio Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich. Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

Western Metal Specialty Div Western Indus-tries Inc 1213 N 62nd St Milwaukee 13 Wis

DEFROSTERS, Windshield (Warm Air)

Arvin Industries Inc 13th St & Big Four RR Columbus Ind

Columbus Ind Eaton Mfg Co E 65th St & Central Ave Cleveland Ohio (Rear Window) Evans Products Co 12101 Eckles Rd Plym-

Corp., Washburn & Walnut Sts., Lock-port, N. Y.

Heater Co., Haynes St., Cadillac, ysor Mich.

DEFROSTER HOSE-See Hose, Defroster DEFROSTING FANS—See Fans, Defrosting & Ventilating, Electric (Auto)

DEGASSERS, Bus

Fageol Co R D Box 328 Kent Ohio

DEPTH GAGES-See Gages, Depth

DERRICKS, TRUCK - See Cranes, Service

DIAL GAGES-See Gages, Dial

DIALS, Instrument

Aico-See American Insulator Corp Acme Metal Etching Co., 4857 St. Aubin Ave., Detroit 7, Mich. Ave., Detroit 7, Mich.

American Insulator Corp New Freedom Pa
"Alco"
American Name Plate
W. Arthington

"Alco" American Name Plate & Mfg. Co., 4254
W. Arthington St., Chicago 24, Ill.
Auto-Lite—See Electric Auto-Lite Co
Croname Inc 6217 Howard St Chicago 48
Ill (Metal glass and plastic)
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y Grammes & Sons, Inc., L. F., 371 Union St., Allentown, Pa.

Allentown, Pa.
Metal Decorating & Mfg. Co., 2021 W. Fulton
St., Chicago 12, Ill.
Neco-See Northern Engraving & Mfg Co
Nerthern Engraving & Mfg Co Fourth &
Vine Sts La Crosse Wis "Neco"
Ward's Name Plates 8504 Lyndon Ave Detroit 38 Mich. Ward's Name Plates 8504 Lyndon Ave Detroit 38 Mich
Willson Camera Co 1401 Lawrence Rd DIES, Die Casting
Havertown Pa (Plastic)

Badger Die Casting

DIAMOND TOOLS-See Tools, Cutting

(See also Alloys, Cutting)

Crafts Co., Arthur A., 603 Newbury St., Ken-more Square, Boston 15, Mass. Dearborn Glass Co., 2414 W. 21st St., Chi-Dearborn (

caro, III.

Diamond Drill Carbon Co 244 Madison Ave
New York 16 N Y (Imported)

Diamond Tool Co 246 Broadway South Haven
Mich "Re-Set-Able"

Industrial Diamond Co 2392 Wolcott Ave
Ferndale 20 Mich (Imported)

J & S Tool Co 87 Dorsa St Livingston N J

Last Word Sales Co 18500 Mt Elliott Ave
Detroit 34 Mich

Re-Set-Able-See Diamond Tool Co

Detroit 34 Mich Re-Set-Able—See Diamond Tool Co Ross-Adseal Inc 738 Lord St Indianapolis 2 Ind (Sole Distributors Ryan Sales Engi-neering Co 82 Lothrop Ave Detroit Mich) Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y

DIAPHRAGM MATERIAL-See Fabric, Syn-

thetic (For parts) DIE CASTING DIES-See Dies, Die Casting DIE CASTINGS-See Castings, Die

IE CASTING MACHINES—See Machines, Die Casting

DIE CUTTING MACHINES - See Machines, Die Sinking

DIE GRINDING MACHINES—See Machines, Grinding (Die)

Eastern Machine Screw Corp., Truman & Barclay Sts., New Haven 6, Conn. "H & G." Geometric Horton Div United-Greenfield Corp Blake & Valley Sts New Haven 15

Corp Blake & Valley Sts New Haven 15 Conn
H & G—See Eastern Machine Screw Corp.
Jones & Lamson Machine Co 523 Clinton
St., Springfield, Vt.
Lanco.—See Landis Machine Co.
Landax—See Landis Machine Co.
Landis Machine Co., Fifth & Church Sts.,
Waynesboro, Pa. "Lanco." "Landex."
"Landmatic"
Landmatic"
Landmatic—See Landis Machine Co
Murchey Div Sheffield Corp 721 Springfield
St Dayton Ohio
Namco Vers-O-Tool—See National Acme Co
National Acme Co., 170 E. 131st St., Cleveland \$, Ohio. "Namco Vers-O-Tool"
R-S.—See Rickert-Shafer Co.,
Rickert-Shafer Co., 612 W. 11th St., Erie,
Pa. "R-S."

DIEING MACHINES-See Machines, Dieing

MAKING MACHINERY & DIE EQUIPMENT (Steel Rules)

Richards Co J A 903 N Pitcher St Kalamazoo Mich "Electromatic"

DIE SAWING AND FILING MACHINES— See Machines, Sawing and Filing

DIE SETS (Forging, Stamping, etc.)

Chicago—See Dreis & Krump Mfg Co
Danly Machine Specialties Inc 2100 S Laramie
Ave., Cicero, Chicago 50, III.
Dreis & Krump Mfg Co 7424 Loomis Blvd
Chicago 36 III "Chicago"
Lempco Products, Inc., 5490 Dunham Rd.,
Eedford, Ohio.
Producto Machine Co 990 Housatonic Ave
Bridgeport 1 Conn (Stamping)
Superior Steel Products Corp 2754 S 19th St
Milwaukee 7 Wis
Tishken Products Co 12000 W Eight Mile Rd

Superior Steel Products Corp 2754 S 19th St Milwaukee 7 Wis Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich Union Mfg Co 296 Church St New Britain

DIE SINKING MACHINES—See Machines, Die Sinking

DIE STOCKS-See Stocks, Die

DIES, Cutting, for Leather, Fabrics and

Acme Mig. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Chambers Gasket & Mig Co 4701 W Rice St Chicago 51 III Electromatic—See J A Richards Co Richards Co J A 902 N Pitcher St Kalamazoo Mich "Electromatic"

Badger Die Casting Corp., 201 W. Oklahoma St., Milwaukee ? Wis Federal Die Casting Co 2222 Elston Ave Chicago 14 Ill Harvill Mfg Co H L P O Box 177 Corona Calif Valor Tool & Machine Co 5320 Oakman St Cam alor Tool & Machine Co 5320 Oakman St Dearborn Mich (Zinc and aluminum)

Acrodie—See Acromark Co.
Acromark Co., § Morrell St., Elizabeth 4.
N. J. "Acrodie."
Hi-Duty—See Geo. T. Schmidt, Inc.
Lo Stress—See Jas. H. Matthews & Co.
Matthews & Co., Jas. H., 3942 Forbes St.,
Pittsburgh 13, Pa. "Tuf-Face," "Lo
Stress."

Merkert & Sons 91-26 143rd St Jamaica 35

See New Method Steel Stamps, Inc.

New Co—See New Method Steel Stamps, Inc. New Method Steel Stamps, Inc., 149 Jos. Campau Ave., Detroit 7, Mich. "Newco." Pannier Corp., 207 Sandusky St., Pittsburgh 12, Pa.
Schmidt, Inc., Geo. T., 4100 Ravenswood Ave., Chicago 13, Ill. "HI-Duty."
Superior Seal & Stamp Co., 1401 Vermont Ave., Detroit 16, Mich.
Superior Steel Stamp Co., 13 E. St. Clair Ave., Cleveland 14, Ohio.
Tuf-Face—See Jas. H. Matthews & Co.

DIES, JIGS, TOOLS and FIXTURES

(See also Die Sets [Forging, Stamping, etc.])
Kickhaefer Mfg Co 303 S Second St Milwaukee 4 Wis (Dies and tools)

DIES, MARKING-See Stamps, Steel

DIES, Thread Rolling

Reed Rolled Thread Die Co P O Box 350 Worcester 1 Mass

DIES, Trimming

Vulcan Tool Co 730 Lorain Ave Dayton 10

DIES, Welding

Ampco Metal Inc 1737 S 38th St Milwaukee 46 Wis "Ampco-Weld" (Flash butt and

projection)
allory & Co., P. R., 3029 E. Washington St.,
Indianapolis 4, Ind. (Resistance.)
-M-S Corp 8605 Livernois Ave Detroit 4

DIES and SCREW PLATES

(See also Die Heads, Self-Opening) Acorn—See Greenfield Tap & Die Div Bay State Tap & Die Co., Chauncy St., Mansfield, Mass. Butterfield—See Union Twist Drill Co But-

terfield Div

Card Div Union Twist Drill Co Butterfield Div
Card Div Union Twist Drill Co S W Rumford Ave Mansfield Mass "Diamond"
"Improved" "Favorite" (Screw plates)
Diamond—See S W Card Div
Favorite—See S W Card Div
GTD—See Greenfield Tap & Die Div
Geometric Horton Div United-Greenfield
Corp Blake & Valley Sts New Haven 18
Conn (Solid adjustable die heads)
Greenfield Tap & Die Div United-Greenfield
Corp Sanderson St Greenfield Mass "Little Giant" "Little Giant Jr" "O K Jr":
"Acorn" "GTD" (Dies)
Improved—See S W Card Div
Keystone Reamer & Tool Co Millersburg
Fa
Little Giant—See Greenfield Tap & Die Div

Little Giant—See Greenfield Tap & Die Div Little Giant Jr—See Greenfield Tap & Die

Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio (Solid adjustable die

St Dayton Unio (School of the Act of the Act

York, N. Y. "Rimac-Hexset."
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio (Dies)
Union Twist Drill Co., Monroe St., Athol

Union Twist Drill Co., Butterfield Div.,
Union Twist Drill Co., Butterfield."

Vermont Tap & Die Corp., Main & Grove
Sta., Lyndonville, Vt.

DIESEL ENGINES-See Engines, Diesel

DIESEL ENGINE FUEL FILTERS—See Filters, Fuel (For Diesel Engines)

DIESEL ENGINE TESTERS - See Testers. Diesel Engine

DIESEL INJECTION EQUIPMENT—See In-Jection Systems, Diesel & Gasoline Engine

DIFFERENTIALS, Auto

(See also Axles, Rear; for individual gears—see Gears and Pinions, Rear Axle)

Automotive Gear Div Eaton Mfg Co S Eighth & C Sts Richmond Ind "Double Diamond"
Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Thornton Powr-Lok" (Locking)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 18, Mich. "No Spin."
(Automatic locking for trucks.)
Detroit Bevel Gear Co., 8120 Jos. Campau Ave., Detroit 11, Mich.
Double Diamond—See Automotive Gear Div Eaton Mfg Co
Dualoc Drive Ine 700 20th St Rockford Ill (Locking)

(Locking) Fairfield Mfg Co State Rd No 52 Lafayette

Ind
Gear & Forge Div of Clark Equipment Co
Horton & Tyson Sts Jackson Mich (Truck)
New Process Gear Div Chrysler Corp 500
Plum St Syracuse N Y
No Spin—See Detroit Automotive Products

No Spin—See Detroit Automotive Products Corp.
Rockwell-Standard Corp Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Timken-Detroit" Thornton Powr-Lok—See Dana Corp Timken-Detroit — See Rockwell-Standard

Corp arner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

DIPPING BASKETS-See Baskets, Dipping DIRECTIONAL SIGNAL SWITCHES - See Switches, Direction Indicating Signal DIRECTIONAL SIGNALS—See Signals, Directing, Indicating (Auto and Truck)
DISC WHEELS—See Wheels, Auto (Disc)

DISCS, Abrasive Grinding

(Abrasive wheels for use in grinding machines)

Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa. "Sloux." Armour & Co Cushioning Products Div & Coated Abrasives Div N Benton Rd Alli-

Coated Abrasives Div N Benton Rd Alli-ance Ohio
Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo "Barrett Acracut"
Bay State Abrasive Products Co 12 Union St Westboro Mass "Dura Cut"
Behr-Manning Corp 4457 Howe St Troy N Y "Disker" "Metalite" "Mushroom" "Speed-Wet"

"Disker" "Metalite" "Mushroom" "Speed-Wet"
Besly-Welles Corp 20 N Wacker Drive Chicago 6 Ill "Besly-Titan"
Carborundum Co., Buffalo Ave., Niagara
Falls, N. Y.
Clover Mfg Co 327 Main St Norwalk Conn
Disker—See Behr-Manning Corp
Dura Cut—See Bay State Abrasive Products
Co
Famico—See Field Abrasive Mfg Co

Dura Cut—See Bay State Abrasive Products
Co
Famco—See Field Abrasive Mfg Co
Field Abrasive Mfg Co 1303 Stanley Ave
Dayton 4 Ohio "Famco" "Field's"
Gardner Machine Co., 444 E. Gardner St.,
Beloit, Wis.
Manhattan—See Raybestos-Manhattan, Inc.,
Manhattan Rubber Div.
Metalite—See Behr-Manning Co.
Mid-West Abrasive Co., 510 S. Washington
St., Owosso, Mich.
Minnesota Mining & Mfg Co 900 Bush Ave
St Paul 6 Minn
Mushroom—See Behr-Manning Corp
Norton Co 1 New Bond St Worcester 6 Mass
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.
"Manhattan."
Simonds Abrasive Co Tacony & Fraley Sts

"Mannattan."
Simonds Abrasive Co Tacony & Fraley Sts
Philadelphia 37 Pa
Sioux—See Albertson & Co.
Speed-Wet—See Behr-Manning Corp

(For pressure plates—See Clutch [Pressure]) Plates.

Clutch [Pressure])
Atkins Saw Div Borg-Warner Corp 402 S
Illinois St Indianapolis 9 Ind
B-N—See Burgess-Norton Mig. Co.
Becker Bros. Carbon Co., 3450 S. 52nd Ave.,
Clcero 50, Ill. (Carbon.)
Borg & Beck Div Borg-Warner Corp 6558 S
Menard Ave Chicago 38 Ill
Burgess-Norton Mig Co 731 Peyton St
Geneva Ill "B-N"
Chicago Saw Inc 6137 S Oak Park St Chicago
9 Ill

9 III

9 III
Curtis Mfg Co Clutch Disc Div 1927 Kienlen
Ave St Louis 20 Mo (Steel or bronze)
Gempco—See General Metals Powder Co
General Metals Powder Co., 130 Elinor Ave.,
Akron 5. Ohio "Gempco."
Ingersoil Products Div Borg-Warner Corp
1000 W 120th St Chicago 43 III
Ingersoil Steel Div of Borg-Warner Corp
P O Box 273 New Castle Ind
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Simonds Saw & Steel Co 470 Main St Fitch-

Simonds Saw & Steel Co 470 Main St Fitch-burg Mass burg Mass Spring Div Borg-Warner Corp Madison St & 25th Avs Bellwood III Velvetouch—See S K Wellman Co Wellman Co S K 200 Exbert St Bedford Ohio "Velvetouch" (Metallic)

DISCS, Clutch (Faced)

Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill "Power-

flex"

B-N—See Burgess-Norton Mfg Co

Burgess-Norton Mfg Co 721 Peyton St

Geneva III "B-N"

International Parts Co., 11th & State Sts.,

Chicago 5, Ill. Chierge 5, III.
Lempce Products Inc 5490 Dunham Rd Bedford Ohio
National-See Wheel Parts & Mfg Co
Perfection Gear Co 152nd St & Vincennes
Ave Harvey III.

National—See Wheel Parts & Mig Co Perfection Gear Co 152nd St & Vincennes Ave Harvey III Powerflex—See Accurate Re-Nu Clutch Div Warner Automotive Div Borg-Warner Corp S Wayne Ave Auburn Ind Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National"

DISCS, SAW-See Blades, Saw (Circular)

DISCS, Universal Joint

Anchor Packing Co., 401 N. Broad St., Phila-delphia 8, Pa. "Ankorite." delphia 8, Pa. "Ankorite."
Ankorite—See Anchor Packing Co.
Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown, Conn.
Graton & Knight Co 356 Franklin St Wor-

cester 4, Mass. Thermoid Co 200 Whitehead Rd Trenton 6

DISCS, Wheel

Cover All—See United Metal Craft Co
Crown Wall—See Kraco Products Inc
Custom Wall—See Kraco Products Inc
Del-Krome Corp 44 West St Walton N Y
"Kromweels" (Full)
Gar Wood Industries Inc Wayne Mich "Gar
Wood Cover-alls" (Full and wire)
Helms Industrial Development Co 220 S Kirk
St West Lafayette Ohio (Wire)
Ideal Rubber Products Co 273 Van Sinderen
Ave Brooklyn N Y "Tyre Trim" (White
rubber)

rubber)
Ingersoll Products Div Borg-Warner Cot
1000 W 120th St Chicago 43 Ill (Truck)
Kraco Products Inc 2411 N Santa Fe Av
Compton Calif "Crown Wall" "Custor
Wall" "Standard Wall" (White rubber)

Wall" "Standard Wall" (White rubber) Kromweels—See Del-Krome Corp Namsco Inc 333 31st Ave Bellwood Ill "National" National" National—See Namsco Inc Standard Wall—See Kraco Products Inc Tyre Trim—See Ideal Rubber Products C United Metal Craft Co 809 Lowell St Tpsilanti Mich "Cover-All" (Wire)

ISPENSERS, GREASE — See Lubricators, Portable (High Pressure) DISPENSERS,

DISTRIBUTOR PARTS—See Parts, Magneto, Coil and Distributor

DISTRIBUTORS, Ignition

Auto-Lite—See Electric Auto-Lite Co.
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Lite"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Holley Carburetor Co 11955 E Nine Mile Rd Van Dyke Mich
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich (Also combination governor and distributor)
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (For Ford and Mercury cars; sole distributors, Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Sburhit Products Inc 845 S Market St Waukegan III

ulcan—See Paragon Products Corp Vico Electric Co 42 Phelon Ave West Springfield Mass kegan Ill Wico

DISTRIBUTOR TESTING INSTRUMENTS-See Instruments, Distributor Testing

DIVIDERS, Power (Rear Axle)

Eaton Mfg Co Axle Div 739 E 140th St Cleve-land 10 Ohlo

DIVIDING HEADS-See Heads, Dividing

DOCKS, TRUCK LOADING - See Ramps, Truck Loading

DOLLIES, Industrial .

Ashland Mfg Co 4003 Seven Mile Lane Bal-timore 8 Md "Champion" Champion—See Ashland Mfg Co Champion—see Ashiand Mrg Co Colson Corp Elyria Ohlo Fairbanks Co 393 Lafayette St N Y 3 N Y Hamilton Caster & Mrg Co 1517 Dixle High-way Hamilton Ohlo Island Equip Corp 1990 E 31st St Hialeah Fla "Ultimate"

Fla "Ultimate"
Kordes Co., Paul J., 4701 N. 125th St., Butler,
Wis. "Skid-Rol"
Mighty Mover Co 1701 E Louisiana Ave
Denver Colo
National Vulcanized Fibre Co Maryland Ave

National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del Nutting Truck & Caster Co 1201 W Division St Faribault Minn Orangeville Mfg Co Oranceville Pa Parker Products Co Pollock Rd Delaware Ohio "Swirl"

Swirl—See Parker Products Co Ultimate—See Island Equip C Wellington Machine Co 133 Wellington O Corp De Wolf St

DOOR CHECKS, CAR-See Checks, Door DRILL JIGS-See Jigs, Drill (Car and Truck)

DOORS, Truck and Trailer

Barker-Colman Co 1300 Rock St Rockford Socke ackney & Sons J A 400 Hackney Ave Washington N C (Plastic for trucks and moving vans)

DOVETAILS

Ferro Stamping Co 1367 Franklin St Detroit 7 Mich

DRAG LINKS-See Connections, Steering DRAIN PLUGS-See Plugs, Crankcase Drain; also Plugs, Drain (Magnetic); also Plugs,

DRAIN PLU PLUG WRENCHES-See Wrenches

DRAW BARS-See Bars, Draw

DRAWING MACHINES (BAR AND WIRE)— See Machines, Drawing (Bar and Wire)

DRAWING PRESSES - See Presses, Deep

DRESSERS, Grinding Wheel

Arcasive Dressing Tool Co 14528 2nd Blvd
Detroit 3 Mich "Red Band"
Big Boss—See Ross Mfg Co
Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Bunke-Musser Inc Box 386 Jackson Center
Ohio "Champion"
Calder Mfg Co 630 N Prince St Lancaster
Pa

Fa Champion—See Bunke-Musser Inc Citco—See Cleveland Industrial Tool Co Cleveland Industrial Tool Co Box 84 Char-

don Ohio "Citco"
Desmond-Stephan Mfg. Co., 217 S. Walnut
St. Urbana, Chio.
Diaform—See Pratt & Whitney Co
Diamond Drill Carbon Co 244 Madison Ave
New York 16 N Y
Diamond Tool Co 246 Broadway South Haven
Mich "Loc-Key-Set"
Fluidmotion—See J. & S. Tool Co.
Form-Master—See J & S Tool Co.
General Electric Co Metallurgical Products
Dept 11777 E 8 Mile Rd Detroit 32 Mich
Hanchett Mfg Co 906 N State St Big Rapids
Mich

Dept 11777 E 8 Mile Rd Detroit 32 Mich Hanchett Mig Co 906 N State St Big Rapids Mich Industrial Diamond Co 2392 Wolcott Ave Ferndale 20 Mich J & S Tool Co 87 Dorsa Ave Livingston N J "Form-Master" "Fluidmotion"
Last Word Sales Co 18500 Mt Elliott Ave Detroit 24 Mich (Radius)
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Loc-Key-Set—See Diamond Tool Co Metal Carbides Corp 107 E Indianola Ave Youngstown 7 Ohio "Tailde"
Moore Special Tool Co., 749 Union Ave., Bridgeport. Conn.
Pratt & Whitney Co. Charter Oak Blvd West Hartford 1 Conn "Diaform"
Red Band—See Abrasive Dressing Tool Co Rimac—See Rinck-Mcliwaine, inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 2, Ohio. "Big Boss," "Senior"
Senior—See Ross Mfg Co Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y
Standard Tool Co 3350 Chester Ave Cleveland 14 Ohio
Tailde—See Metal Carbides Corp
Tru-Line—See Wheel Trueing Tool Co
Tru-Thread—See Wheel Trueing Tool Co
Detroit 38 Mich "Tru-Line" "Tru-Thread"
Willey's Carbide Tool Co 1340 W Vernon
Highway Detroit 1 Mich
ORLD Tool Council Covers, Tops and UpholsCloth (For Seat Covers, Tops and Uphols-

RILL, ENAMELED — See Fabric. Coate Cloth (For Seat Covers, Tops and Uphols tery, etc.)

DRILL GAGES-See Gages, Drill and Wire

DOME LIGHTS-See Lamps, Back-up, Cowl, DRILL GRINDERS-See Machines, Grinding Dome, Fender, Tail, etc. (Drill)

DRILL PRESSES-See Machines, Drilling DRILL PRESS VISES-See Vises, Drill Press

RILL SOCKETS and SLEEVES - See Sockets and Sleeves, Drill

DRILL STANDS, ELECTRIC—See Stands for DRILLS, Post
Portable Electric Drills and Grinders

moving vans)

K B—See Kirk & Blum Mfg. Co.
Kinnear Mfg Co 2100 Fields Ave Columbus
16 Ohio (Steel rolling)

Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B" (Steel)

Met-L-Wood Corp 6755 W 65th St Chicago
38 Ill (Truck body)

Truk-A-Door Co 33 Henry St Detroit 1 Mich (Roll-up) SPINDLES - See DRILLING MACHINES-See Machines, Drill

DRILLS, Breast

Millers Falls Co., Greenfield, Mass. Stanley Tools, 111 Elm St., New Britain,

tanley-Yankee Tools Inc American St & Lehigh Ave Philadelphia 23 Pa

DRILLS, Portable Electric

(See also Machines, Flexible Shaft [Portable Electric])

Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa. "Sloux." Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Holgun" Blue Point—See Snap-On Tools Corp Buckeye Tools Corp 5005 Springboro Pike Davion 3 Obio.

Blue Point—See Snap-Blue Point—See Snap-Buckeye Tools Corp 5005 Springoo... Dayton 9 Ohlo Chicago Pneumatic Tool Co 6 E 44th St New York N Y "Universal" "Hicycle" & "Su-percycle" Cummins Portable Tools Div of John Oster

percycle"
tummins Portable Tools Div of John Oster
Mfg Co 5055 N Lydell Ave Milwaukee 17
Wls
licycle—See Chicago Pneumatic Tool Co
folgun—See Black & Decker Mfg Co
ngersoil-Rand Co 11 Broadway New York

Holgun—
Ingersoil-Rand Co 11 Broadway
4 N Y
Jones Motorola Corp., 432 Fairfield Ave.,
Stamford, Conn.
K R W-See K R Wilson Inc
Kett Tool Co 5055 Madison Rd Cincinnati

Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Mighty Midget—See Stanley Electric Tools Millers Falls Co., Greenfield, Mass.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co 5350 W State
St Milwaukee & Wis
Pet—See Portable Electric Tools Inc.
Portable Electric Tools Inc. 230 W 83rd St
Chicago 20 Ill "Pet"
Porter-Cable Machine Co 700 Marcellus St
Syracuse 4 N Y
Remington Arms Co 339 Barnum Ave

Syracuse Machine Co 700 Marcellus St Syracuse 4 N Y Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn Rotor Tool Co 23600 Lakeland Blvd Cleveland 22 Ohlo Signal Mfg Co 69 Bennett St Lynn Mass Sloux—See Albertson & Co. Snap-On Tools Corp., 8046 28th Ave., Kenosha. Wis. "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park III "Thor Speed Drills"
Stanley Electric Tool Div of Stanley Works 480 Myrtle St New Britain Conn "Mighty Supercycle—See Chicago Pneumatic Tool Co. Thor Speed Drills—See Seculation Con Thor Speed Drills—See Chicago Processing Con Thor Speed Drills—See Seculation Con Thor

Midget' See Chicago Pneumatic Tool Co Thor Speed Drills—See Speedway Mfg Co Thor Fower Tool Co 175 State St Aurora III United States Electrical Tool Co 3520 Llew-elyn St Cincinnati 23 Ohlo Iniversal-See Chicago Pneumatic Tool Co. Wen Products Inc 5806 Northwest Highway Chicago 31 III Wilson Inc K R Arcade N Y 'K R W'

DRILLS, Portable Pneumatic

Air-Speed Tool Co 1502 W Slauson Ave Los Anceles 47 Calif Aro Equipment Corp., Bryan, Ohio. Brown Tool Mfg Co 9422 Trenton Ave St Louis 14 M6 "Solar" Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio

Brown
Louis 14 Mo "Some
Louis 14 Mo "Some
Buckeye Tools Corp 5005 Springboro
Dayton 9 Ohio
Chicago Pneumatic Tool Co 6 E 44th St
N 7 17 N Y "CP"
Cleco Div of Reed Roller Bit Co 5125 Clinton
Dr Houston 1 Tex "Cleco."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. "Ideal Air Horse."
" Sand Co 11 Broadway New York

4 N X Keller Tool Div Gardner Denver Co 1333 Ful-ton St Grand Haven Mich Master Pneumatic Tool Co Krick Rd Bedford Ohio "Master Power"

Arms Co 939 Barnum Ave Remington Arms
Bridgeport 2 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Skil Corp 5033 Elston Ave Chicago 30 Ill Skil Corp 5033 Elston Ave Chicago "Skil Drill" Solar—See Brown Tool Mfg Co Thor Power Tool Co 175 State St Aurora Ill

Champion Blower & Forge Co., Harr Ave. & Charlotte St., Lancaster, Pa. Harrisburg

DRILLS, Ratchet

Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. Morse Twist Drill & Machine Co., 163 Pleas-ant St., New Bedford, Mass.

DRILLS, Twist

Ace Drill Corp 2600 E Maumee & Adrian Mich Mich American Twist Drill Co 14301 W Chicago Blyd Detroit 28 Mich Besly-Welles Corp 20 N Wacker Drive Chi-cago 6 Ill

Black Panther-See Cogsdill Twist Drill Co.

Black Panther—See Corsdill Twist Drill Co.
Blackhawk—See New Britain Machine Co.
Blue Diamond—See Whitman & Barnes, Div.
of United Drill & Tool Corp.
Chicago Tool & Kit Mfg Co. 230 N Jefferson
St. Chicago 6 Ill.
Clee-Forge—See Cleveland Twist Drill Co.
Cleveland Twist Drill Co., 1242 E. 49th St.,
Cleveland, Ohio. "Cle-Forge."
Cogsdill Twist Drill Co. 12956 W Eight Mile
Rd Detroit 21 Mich "Black Panther"
"Economy"
Continental Drill Corp 555 W Adams St Chi-

Continental Drill Corp 555 W Adams St Chi-cago 6 Ill Cornwell Quality Tools Co Mogadore Ohio Dixon Inc Wm 32 E Kinney St Newark 1 N J

N J
Do All Co 254 N Laurel Ave Des Plaines Ill
Economy—See Cogsdill Twist Drill Co
GTD-Ampco—See Greenfield Tap & Die Div
Greenfield Tap & Die Div United-Greenfield
Corp Sanderson St Greenfield Mass "GTD-

Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio Hercules-See Whitman & Barnes, Div. of United Drill & Tool Corp.

United Drill & Tool Corp.
Keystone Reamer & Tool Co., Millersburg, Pa.
National Twist Drill & Tool Co., Rochester, Mich.
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"
Pratt & Whitney Co Charter Oak Blvd West Hartford i Conn
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y Rinek-

N Y Servwell Products Co 6519 Euclid Ave Cleve-land 3 Ohio Shield Brand—See Standard Tool Co. Spiral Step Tool Co 5400 N Damen Ave Chi-

Shield Brand—See Standard Tool Co.
Spiral Step Tool Co 5400 N Damen Ave Chicago 25 III (Spiral step)
Standard Tool Co 3950 Chester Ave Clevehand 14 Ohio "Shield Brand"
Threadwell Tap & Die Co., Greenfield, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
W-S—See Wendt-Sonis Co.
Wendt-Sonis Co 10th & Collier Sts Hannibal
Mo "W-S" (Carbide tipped)
Whitman & Barnes Div of United Drill &
Tool Corp 40085 Plymouth Rd Plymouth
Mich "Blue Diamond" "Hercules"
Willey's Carbide Tool Co., 1340 W. Vernor
Highway, Detroit 1, Mich.

filley's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich. DRIP PANS-See Pans, Drip

DRIVE PINS-See Pins, Drive DRIVE SCREWS-See Screws, Drive DRIVE SHAFTS-See Shafts, Propeller

DRIVERS, Bushing

Cal-Van Machine Products Inc 809 S Water St., Jackson, Mich. Douglass Tool Co 5251 Pattison Ave St Louis 10 Mo

10 Mo
Hunt Mfg Co Geo L 106 Commercial St Boscobel Wis
Kaywood Products Corp 217 Clinton St Jackson Mich "Red Line"
Miller Co L B 236 W Main St Stamford
Conp.

Miller Co L B south Conn Conn Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohlo National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. OTC—See Owatonna Tool Co.

DRIVERS, Bushing-continued

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC." Red Line—See Kaywood Products Corp. Roytar Tool-Die Mfg Co 2230 S Wood St Chicago 8 Ill oerman-Clark Mfg Co 624 N Mechanic St Jackson Mich

DRIVERS, Screw (Portable Electric)

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux" Jiowa "Sioux" Mfg Co 629 Pennsylvania Ave Towson 4 Md "Scrugun" Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio Chicago Pneumatic Tool Co 6 E 44th St New York N 7 "Universal" "Hicycle" & "Supercycle" Hicycle—See Chicago Pneumatic Tool Co Ingersoll-Rand Co 11 Broadway, New York 4 N Y

4 N Y
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co 5350 W State
St Milwaukee 8 Wis
Remington Arms Co 939 Barnum Ave
Bridgeport 2 Conn
Scrugun-See Black & Decker Mfg Co
Sloux—See Albertson & Co
Skil Corp 5032 Elston Ave Chicago 30 Ill
"Skil Drivers"
Stapley Electric Tools Div of Stapley

"Skil Drivers"
Stanley Electric Tools, Div. of Stanley
Works, 480 Myrtle St., New Britain, Conn.
Supercycle—See Chicago Pneumatic Tool Co
Thor Power Tool Co 175 State St Aurora III
United States Electrical Co 3620 Llewelyn St Cincinnati 21 Ohio Universal—See Chicago Pneumatic Tool Co.

DRIVERS, Screw (Portable Pneumatic)

Aro Equipment Co., Bryan, Ohio. Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio CP—See Chicago Pneumatic Tool Co Dayton 9 Ohio

CP—See Chicago Pneumatic Tool Co.

Chicago Fneumatic Tool Co. 6 E. 44th St...

New York, N. "CP," "Magnamatic,"

"Microtite."

Cieco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston I, Tex.

Dixon Automatic Tool Inc 2300 23rd Ave Rockford III

Ingersoll-Rand Co. 11 Page 2011 Research

Ingersoll-Rand Co 11 Broadway New York

4 N Y
Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich
Magnamatic—See Chicago Pneumatic Tool

Master Pneumatic Tool Co Krick Rd Bedford Ohio "Master Power"
Master Power—See Master Pneumatic Tool

Co

Microtite—See Chicago Pneumatic Tool Co
Microtite—See Chicago Pneumatic Tool Co
Powasert—See United Shoe Machinery Corp
Remington Arms Co 939 Barnum Ave
Bridgeport 2 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohlo
Semspak—See Shakeproof Div
Shakeproof Div of Illinois Tool Works St
Charles Rd Elgin III "Semspak"
Skil Corp Inc 5032 Elston Ave Chicago 30 III
"Skil Driver"
Thor Power Tool Co 175 State St Aurora III
United Shoe Machinery Corp 140 Federal St
Boston 7 Mass "Powasert"
RIVERS, STUD—See Setters, Stud. Nut.

DRIVERS, STUD-See Setters, Stud, Nut, Bolt and Lag Screw

DRIVES, V-Belt (For Pusher or Trailing Axles)

Gates Rubber Co 999 S Broadway Denver 17 Colo

DRIVES, Engine Fan, Generator, Windshield Wiper, Etc. (Auto)

Eaton Mfg Co Dynamatic Div 2307 14th Ave Kenosha Wis "Tynamatic" (Electromagnetic)

Schwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind (Fan)

dianapolis 7 Ind (Fab.)

DRIVES, MACHINE TOOL—See Transmissions, Variable Speed (Industrial)

DRIVES, REAMER—See Reamers, Machine

DRIVES, REFRIGERATION SYSTEM (Truck

Trailar)—See Parts, Refrigeration Sysand Trailer)-See Parts, tems (Truck and Trailer)

DRIVES, Starter (Auto)

Bendix—See Eclipse Machine Div., Bendix DYNAMOMETERS, Chassis Testing Aviation Corp., Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Bendix."

Clayton Mfg Co 401 N Temple City Blvd Monte Calif (Hydraulic)

DRIVES, Variable Speed (Machine Tool)

Tool)

Ajusto-Spede—See Louis Allis Co
Allis Co Louis 427 E Stewart St Milwaukee
7 Wis "Ajusto-Spede" "Select-A-Spede"
Cleveland Worm & Gear Co Speed Variator
Div 3274 E 80th St Cleveland 4 Ohlo
"Cleveland Speed Variator"
Dodge Mfg Corp 500 Main St Mishawaka Ind
"Taper-Lock"
Dynaspede—See Eaton Mfg Co
Eaton Mfg Co Dynamatic Div 3307 14th Ave
Kenosha Wis "Dynaspede"
Reeves Pulley Div of Reliance Electric &
Engrg Co 1225 Seventh St Columbus Ind
Reliance Electric & Engrg Co 24701 Euclid
Ave Cleveland 17 Ohlo
Select-A-Spede—See Louis Allis Co
Taper-Lock—See Dodge Mfg Corp

DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Alumi-num fins bonded to cast iron, semi-fin-

ished.)
Budd Co 2450 Hunting Park Ave Philadelphia
32 Pa (Combination iron and steel)
Campbell Wyant & Cannon Foundry Co
Muskegon Mich "Cannonite" (Sand cast;
centrifused)
Cannonite—See Campbell, Wyant & Cannon
Foundry Co.
Crosby Co 183 Pratt St Buffalo 5 N Y
(Pressed steel)
Payton Steel Foundry Co 1366 Miami

(Pressed steel)
Dayton Steel Foundry Co 1366 Miami
Chapel Rd Dayton 1 Ohio (Iron)
Erie Malleable Iron Co (Automotive Wheel
Div) 698 W 12th St Erie Pa (Cast alloyed

Frank Foundries Corp 2020 Third Ave Mo-line Ill "Frankite" (Iron) line Ill "Frankite" (Iron)
Frankite—See Frank Foundries Corp.
Gunite Foundries Corp 302 People 302 Peoples Ave

Rockford, III (Iron)

Homan & Co 511 Reading Rd Reading Cincinnati 15 Ohlo (Iron)

Hunt-Spiller Mfg Corp 383 Dorchester Ave
South Boston 27 Mass "Hunt-Spiller Air
Furnace Gun Iron" (Iron, for buses or

Kaloy - See Kay-Brunner Steel Products,

Kay-Brunner Steel Products Inc 999 Meri-dian Ave Alhambra Cal "Kaloy" (Iron.

Kay-Brunner Steel Products inc 399 Meridian Ave Alhambra Cal "Kaloy" (Iron, for truck trailers)
Kelsey-Hayes Co 2600 Military Ave Detroit 22 Mich (Composite iron and steel)
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Centrifuse"
Reyco—See Reynolds Mfg. Co.
Reynolds Mfg Co 600 N Prospect Ave Springfield 2 Mo "Reyco" (Special alloy Iron)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Special alloy iron.)

DRUMS, Steel Shipping Olumbian Steel Shipping
Columbian Steel Tank Co., 1409 W. 12th St.
Kansas City 7. Mo.
IS—See Inland Steel Container Co.
Inland Steel Container Co., 6532 S. Menard
Ave., Chicago 38. III. "IS."
USS—See United Steel Products Div
United States Steel Products Div United
States Steel Corp 5100 Santa Fe Ave Los
Angeles 58 Calif "USS"

DRYERS, Japanning and Varnish

JRYERS, Japanning and Varnish
Drying Systems Co 1810½ Foster Ave Chicago 40 Ill "Dry-Sys"
Dry-Sys—See Drying Systems Co
K & B-See Kirk & Blum Mfg. Co.
Mahon Co R C 6565 E 8 Mile Rd Detroit 34
Mich (Japanning)
Ross Engrg Div Midland-Ross Corp J O 444
Madison Ave New York 22 N Y
Steiner-Ives Co Springfield Rd Union N J
(Japanning)
Young Bros Co
1831 Columbus Rd Cleveland 13 Ohio

DRYERS, METAL PARTS—See Machines, Drying (Metal Parts)

DRYING LAMPS—See Lamps, Drying, Baking and Heating

DUCK, ENAMELED - See Fabric, Coated Cloth (For Seat Covers, Tops and Uphols-

Clayton Mfg Co 401 N Temple City Blvd El Monte Calif (Hydraulic) Mid-West Dynamometer & Engineering Co. 3100 River Rd., River Grove, Ill. (Elec-tric and hydraulic.) Nankervis Co George L 15300 Fullerton St Detroit 27 Mich

DYNAMOMETERS, Engine Testing

Clayborne Mfg Co 429 N Main St Monticello Clayton Mfg Co 401 N Temple City Blvd El Monte Calif (Hydraulic) Dynamatic-See Eaton Mfg Co Dynamatic

Div
Eaton Mfg Co Dynamatic Div 3307 14th Ave
Kenosha Wis "Dynamatic" (Eddy current)
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E" (Elec-

Hi-Eff—See Taylor Dynamometer & Ma-chine Co.

chine Co.

Link Engrg 13840 Elmira Ave Detroit 27

Mich (Electric)

Mid-West Dynamometer & Engineering Co.,
3100 River Rd., River Grove, Ill. (Electric) and hydraulic.)

Nankervis Co George L 15300 Fullerton St
Detroit 27 Mich

Taylor Dynamometer & Machine Co 6411

River Parkway Milwaukee 13 Wis "Hi-

Toledo Scale Co Telegraph Rd Toledo 13 Ohio Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa

DYNAMOS, BATTERY CHARGING (AUTO)
—See Generators, Electric Lighting and Bat-tery Charging (Auto)

DYNAMOS, PLATING-See Machines, Plating EJECTORS, WATER, OIL, CARBON & SLUDGE, AUTOMATIC (AIR TANK)—See Valves, Air Tank Drain (Automatic)

ELECTRICAL INSULATION, LIQUID-Insulation, For Electric Parts (Liquid)

ELECTRO - MAGNETIC COUPLINGS — See Couplings, Electro-Magnetic

ELECTRODE HOLDERS-See Holders, Elec-

ELECTRODES, Welding-See Rods, Welding

ELECTROLYTE, Battery Acid

Aero Brand—See American Cyanamid Co.
American Cyanamid Co., 30 Rockefeller
Plaza, New York 20, N. Y. "Aero Brand."
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
du Pont de Nemours & Co., E. I., Grasselli
Chemicals Dept., Wilmington 98, Del.
Gould-National Batteries Inc Industrial Div
467 Calhoun St Trenton 7 N J

ELECTROLYTIC NICKEL-See Nickel, Electrolytic

ELECTROPLATING ANODES—See Anodes, Electroplating

LECTROPLATING CHEMICALS—See Chemicals, Electroplating ELECTRO-SPARK MACHINES - See Ma-

chines, Electro-Spark

ELEVATORS, Automobile and Parts

Jeffrey Mfg Co 846 N 4th St Columbus 16 Jenrey Mig Co of the Control of the

ELEVATORS, Industrial (Portable)

Barrett-Cravens Co 630 Dundee Rd Northbrook III
Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio (Hydraulic)
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio Colson Corp Elyria Ohio Economy Engineering Co., 4511 W. Lake St., Chicago 24, III. "Economy Shoplifter."
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Hydraulic)
Grand Specialties Co 3113 W Grand Ave Chicago 22 III
L-E-W-See Lippmann Engrg Wks Inc
L-S-See Lewis-Shepard Products Inc
Lewis-Shepard Products Inc 1650 Walnut St
Watertown Mass "L-S" (Hand and electric)

Lippmann Engrg Works Inc 4603 W Mitchell St Milwaukee Wis "LEW"

Oliver Corp A B Farquar Div 142 N Duke St York Pa Raymond Corp 151 Madison St Greene N Y Revolvator Co., U. S. Route 1 at 86th St. North Bergen, N. J. (Hand, electric and oil bydraulic.)

hydraulic.) Weld-Bilt-See West Bend Equipment Corp. st Bend Equipment Corp., 216 S. Water t., West Bend, Wis. "Welt-Bilt." (Hand and electric.)

EMBLEMS-See Monograms, Initials and Emblems, Ornamental

EMBOSSING DIES-See Dies, Embossing

EMERY CLOTH-See Cloth, Abrasive

EMERY PAPER-See Paper, Abrasive

EMERY WHEELS-See Wheels, Grinding

ENAMELS, Auto, Truck and Bus

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich "Fleet-X" "Super-Fleet-

X"
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio. "Bexco."
American Lacquer Solvents Co., Perklomen Junction, Phoenixville, Pa. "Quix."
American Paint Co 902 Larrabee St Chicago 10 Ill "Artspar" "Dalax" (For commercial vehicles)
American Varnish Co 1138 N North Branch St Chicago 22 Ill "American" "Artspar" Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Syntte" See American Varnish Co

Artspar-See American Varnish Co.
Automotive Finishes, Inc., P. O. Box 457,
Northwestern Station, Detroit 4, Mich.
"Fleet-Lux."

o-See Akron Paint & Varnish Co. ing Bros Inc 4209 E Chase St Baltimore

Co., 106 Graden Quality.

den Quality."
Dalax—See American Paint Co.
Ditzco—See Ditzler Color Div., Pittsburgh
Plate Glass Co.
Ditzler Color Div., Pittsburgh Plate Glass
Co., 8000 W. Chicage Ave., Detroit 4, Mich.
"Ditzco."

"Ditzeo.

"Ditzco."
Donahue Varnish Co., F. J., 10586 Knodell
Ave., Detroit, Mich. "Don-A-Lac."
Don-A-Lac—See Donahue Varnish Co.
Dulux—See E. I. du Pont de Nemours &

Dulux—See E. I. un avan.

Co.
du Pont de Nemours & Co E I Finishes Div
Refinish Sales Wilmington 98 Del "Dulux"
Dupli-Color Products Co 2440 S Michigan Ave
Chicago 16 Ill
Duracron—See Forbes Finishes Div
Duracyrl—See Forbes Finishes Div
Evlon—See Sherwin-Williams Co

Exlon—See Sherwin-Williams Co Fleet-Lux—See Automotive Finishes Inc Flood & Conklin Co., 132 Chestnut St., New-ark 5, N. J. leet-X-See Acme Quality Paints Inc

Forbes Finishes Div Pittsburgh Plate Glas Co 3800 W 143rd St Cleveland 11 Ohi "Duracron" "Duracryj" "Plastox" "Synco "Raybake" "Raybake

Frostex—See Frost Paint & Oil Corp.
Frost Paint & Oil Corp., 1209 Tyler St.,
N. E., Minneapolis 13, Minn. "Frostex."
Glidden Co 900 Union Commerce Bldg Cleve-land 14 Ohio

land 14 Ohio Gildden Quality—See Campbell Paint & Var-nish Co., Div. Gildden Co. Glyko—See R. N. Nason & Co. Hardcote—See McDougall-Butler Co Hock Paints Inc Box 190 Phoenixville Pa "Metalock"

"Metalock"

Horn Co A Products Finishes Div 10th St & 44th Ave Long Island City 1 N Y
Hyspar—See Midland Paint & Varnish Co.
Illibronze—See Illinois Bronze Powder Co.
Illinois Bronze Powder Co., 2015 S. Clark St.,
Chicago, Ill. "Illbronze."
Interstate Enamel & Varnish Co 223 W 15th St Indianapolis Ind "Realcoat"
Kem—See Sherwin-Williams Co.
Kyvion Ine Ford & Washington Sts Norris-

Krylon Inc Ford & Washington Sts Norris-town Pa

Lavax—See Pittsburgh Plate Glass Co., Paint Div

M-M-A Inc Coho Bldg Lancaster Pa "Sprit-zit Color-Spra" McDougall-Butler Co 2929 Main St Buffalo 14 N Y "Hardcote"

Martin-Senour Co 2500 Senour Ave Chicago 8 Ill "Synthol"

Metalock—See Hock Paints Inc Midland Paint & Varnish Co 3801 E 91 St Cleveland 5 Ohio "Hyspar" Modene Paint Co 305 Eastern Ave Chelsea 50 Mass

Morlux-See Morris Paint & Varnish Co.

Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Morris," "Morlux."

Nason & Co R N 151 Potrero Ave San Francisco 3 Calif "Glyko"

Oxidermo Products, Inc., Springport, Mich.

Per-Max-See Rinshed-Mason Co Pittsburgh Plate Glass Co Paint Div 1 Gateway Center Pittsburgh 22 Pa "Lavax"
Plasti-Kote Inc 9801 Harvard Rd NW Cleve-

land 5 Ohlo

Plastox—See Forbes Finishes Div Quix—See American Lacquer Solvents Co. Raybake—See Forbes Finishes Div., Pitts-burgh Plate Glass Co. Realcoat—See Interstate Enamel & Varnish

Rinshed-Mason Co 5935 Milford St Detroit 10 Mich "Per-Max"

Seymour of Sycamore Inc 218 Lucas St Syca-

more III
Sherwin-Williams Co 101 Prospect Ave N W
Cleveland 1 Ohio "Kem" "Exlon"
Spritzit Color-Spra—See M-M-A Inc

Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "Stantox" Stantox—See Standard-Toch Chemicals Inc Steelcote Mfg. Co., 3418 Gratlot Ave., St. Louis 3, Mo. Super Fleet-X—See Acme Quality Paints Inc

Super Fleet-X-See Acme Quality Paints Inc
Synco-See Forbes Finishes Div., Pittsburgh
Plate Glass Co.
Syntie-See Arco Co.
Synthe-See Martin-Senour Co.
Totrust-See Wilbur & Williams Co
Vita-Var Corp., 46 Albert Ave., Newark,
N. J. "Vita-Lux."
Valent Co. 1108 W. Moles Co.

N. J. "Vita-Lux."
Vulcan Varnish Co., 1108 W. Main St.,
Louisville, Kv.
Wilbur & Williams Co. 130 Lincoln St
Brighton Mass "Totrust"
Zac-Lac Paint & Lacquer Corp 350 Simpson
St NW Atlanta 13 Ga

ENGINE CONTROL S WITCHES - See Switches, Engine Control (Machinery)

ENGINE COOLANT FILTERS—See Filters, ENGINES, Diesel

ENGINE ENCLOSURES. INDUSTRIAL-Housings, Engine and Generator

ENGINE HOUR METERS-See Meters. En. gine Hour (Truck) ENGINE TESTING DYNAMOMETERS—See Dynamometers, Engine Testing

ENGINE TESTING INSTRUMENTS — See Analyzers, Engine and Electrical Equipment

ENGINES, Aircraft

Aircooled Motors Inc., Liverpool Rd., Syracuse 8, N. Y. "Franklin." Allison Div General Motors Corp P O Box 894

Indianapolis 6 Ind

Indianapolis 6 Ind
Continental Motors Corp Aircraft Engine
Div Muskegon 82 Mich "Red Seal"
Fairchild Engine Div Fairchild Engine &
Airplane Corp Deer Park L I N Y
Franklin—See Aircooled Motors Inc.
General Electric Co Aircraft Gas Turbine Div
Evendale Ohio (Mail address Box 196 Cincinnati 15 Ohio)

Herrmann Engrg Co 1405 Air-Way Glendale 1 Calif Lambert-See Monocoupe Aircraft & Engine

Corp Lycoming Div Avco Mig Corp 550 S Main St Stratford Conn Monocoupe Aircraft & Engine Corp Mel-bourne Fla "Lambert"

Dourne Fia "Lambert"

Pratt & Whitney Aircraft Div of United Aircraft Corp East Hartford 8 Conn Red Seal—See Continental Motors Corp.

Westinghouse Electric Corp Aviation Gas Turbine Div P O Box 288 Kansas City Mo Wright Aeronautical Div Curtiss-Wright Corp Main & Passaic Sts Wood-Ridge N J

ENGINES, AUTOMOBILE (Diesel)—See Engines, Diesel

ENGINES, Auto, Truck and Bus (Gasoline)

(Covering manufacturers who build en-gines primarily for re-sale)

Aircooled Motors, Inc., Liverpool Rd., Syra-cuse S, N. Y. "Franklin." (Truck.) Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wis (Truck and bus)

Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y. (Truck.) Chevrolet Motor Div General Motors Corp General Motors Bldg Detroit 2 Mich

Continental Motors Corp Muskegon 82 Mich 'Red Seal'

"Red Seal"
Ford Motor Co Engine & Foundry Div 3001
Miller Rd Dearborn Mich
Franklin—See Aircooled Motors, Inc.
GMC Truck & Coach Div General Motors
Corp 660 South Blvd E Pontiac 11 Mich

Franklin—See Aircooled Motors, Inc.
GMC Truck & Coach Div General Motors
Corp 660 South Blvd E Pontiac 11 Mich
(Truck and bus)
Hail-Scott Inc 2850 Seventh St Berkeley 10
Calif (Truck bus and fire truck)
Hercules Motors Corp 101 11th St S E Canton 2 Ohio (Truck, tractor and bus)
Herrmann Engrg Co 1405 Air-Way Glendale
1 Calif (Truck and bus)
International Harvester Co., Harvester Bidg.,
180 N. Michigan Ave., Chicago 1, Ill.
(Truck, tractor and bus, Chicago 1, Ill.
(Truck, tractor and bus)
Red Seal—See Continental Motors Corp.
Reo Div White Motor Co 1331 S Washington
Ave Lansing 20 Mich (Truck and bus)
Studebaker-Packard Corp 635 S Main St
South Bend 27 Ind
Waukesha Motor Co W St Paul Ave Waukesha Motor Co., 842 E. 79th St., Cleveland
1, Ohio (Truck and bus.)
White Motor Inc 940 N Cove Bivd Toledo
1 Ohio (Car and truck)

ENGINES. Butane and Propane (Bus and Truck)

Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wis (Truck) Continental Motors Corp Muskegon 82 Mich

Red Sea

Hall-Scott Inc 2850 Seventh St Berkeley 10 Calif (Bus truck and fire truck)

riali-Scott Inc 2850 Seventh St Berkeley 10 Calif (Bus truck and fire truck) Hercules Motors Corp 101 11th St S E Canton 2 Ohio Red Seal—See Continental Motors Corp. Reo Div White Motor Co 1331 S Washington Ave Lansing-20 Mich Waukesha Motor Co W St Paul Ave Wau-kesha Wis

(For use in cars, trucks, buses, trac-tors, aircraft and motorboats)

Allis-Chalmers Mrg Co Engine Material Handling Div 1125 S 70th St Milwaukee 1 Wis (Bus truck and marine) Baldwin-Lima-Hamilton Corp Philadelphia 7 Fa (Marine) Burmelster & Wain American Corp Lathrop Engine Div Holmes St Mystic Conn (Marine)

Burmeister & Figure Div Holmes St. 2017. [Marine] (Marine) Caterpillar Tractor Co Peoria III (Marine) Cerlist Diesel Inc 1709 N Church St Burlington N C (Truck) Continental Motors Corp Muskegon S2 Mich Continental Motors Corp Muskegon S2 Mich Criffed Seal" (Truck tractor bus and

"Red Seal" (Frace)
marine)
ummins Engine Co 1900 Fifth St Columbus
lind (Truck bus tractor and marine)
curtiss-Wright Corp Utica Div 50500 Mound
Rd Utica Mich "Mercedes-Benz" (Truck Ind (Truck bus tractor and masther. Curtiss-Wright Corp Utica Div 50500 Mound Rd Utica Mich "Mercedes-Benz" (Truck and marine)
Detroit Diesel Engine Div General Motors Corp 13400 W Outer Drive Detroit 28 Mich (Truck bus and marine)
Fairbanks, Morse & Co., 600 S. Michigar Ave., Chicago 5. Ill. (Marine.)
General Metals Corp Enterprise Div 18th & Florida Sts San Francisco 10 Calif (Marine.)

rine)
ray Marine Motor Corp 710 Canton Ave
Detroit 7 Mich "Gray" & "Graymarine" Detroit (Marine)

GLOBE ELEVATORS

Heavy duty oil-hydraulic freight types for industrial and garage installation.

GLOBE HOIST COMPANY

Philadelphia . Des Moines . Long Beach, Cal Circle 224 on Inquiry Card for more data

WAUKESHA for greatest overall economy Oil, Gasoline, Butane

Circle 225 on Inquiry Card for more data

ENGINES, Diesel-continued

Hall-Scott Inc 2850 Seventh St Berkeley Calif (Truck bus and fire truck) Hercules Motors Corp 101 11th St S E Can-ton 2 Ohio (Truck, tractor and bus) Hill Diesel Engine Div Berry-Hill Corp 1 Washington Ave Providence R I (Marine)

International Harvester Co., Harvester Bldg. 180 N. Michigan Ave., Chicago 1, Ill.

International Harvester Co., Harvester Bidg.

180 N. Michigan Ave., Chicago 1, ill.
(Tractor.)

Kahlenberg Bros Co 1202 Monroe St Two
Rivers Wis (Marine)

Mack Trucks Inc 1355 W Front St Plainfield

N J (Truck and bus)

Mercedes-Benz—See Curtiss Wright Corp
Minneapolis-Moline Co Box 1050 Minneapolis

40 Minn (Tractor)

Nordberg Mfg Co 3078 S Chase Ave Milwaukee 1 Wis (Marine)

P & H Diesel Engine Div Harnischfeger
Corp 500 S Main St Crystal Lake Ill "P &
H" (Automotive and marine)

Red Seal—See Continental Motors Corp.
Red Wing Marine Corp 1000 Levee St Red
Wing Minn (Marine)
Seripps Motor Co 255 Vinewood Ave Detroit 16 Mich (Marine)
Sheppard Co R H 101 Philadelphia St Hanover Pa (Tractor and marine)
Waukesha Motor Co W St Paul Ave Waukesha Wis (Truck and bus)

White Diesel Engine Div White Motor Co
1401 Sheridan Ave Springfield Ohlo

ENGINES, GASOLINE POWER UNITS—See

ENGINES, GASOLINE POWER UNITS-See

ENGINES, Industrial

Chrysler Corp Marine & Industrial Engine
Div Detroit 21 Mich
Continental Motors Corp Muskegon 82 Mich
"Red Seal" (Gasoline Butane natural gas
and Diesel)
Ford Div of Ford Motor Co Rotunda Dr at
Southfield Rd Dearborn Mich
Red Seal—See Continental Motors Corp
Waukesha Motor Co W St Paul Ave Waukesha Wis (Diesel gasoline and LP-Gas)

ENGINES, Small (Gasoline)

Bee-Line-See Mustang Motor Products Corp Briggs & Stratton Corp 2711 N 13th St Mil-waukee 1 Wis Clinton Engines Corp Maple & Clark Sts

Maquoketa la
Continental Motors Corp Muskegon 82
Mich "Red Seal" Cushman Motor Works, Inc., 920 N. 21st St.,

Mich "Red Seal"
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill
Kohler Co Kohler Wis (Air cooled)
Lauson-Power Products Div Tecumseh Products Co New Holstein Wis MM—See Minneapolis-Moline Co McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45. Calif.
Minneapolis-Moline Co Box 1050 Minneapolis 40 Minn "AIM"
Mustang Motor Products Corp 241 Concord St Glendale 3 Calif. "Bee-Line"
Onan & Sons Inc D W University Ave S E at 25th St Minneapolis 14 Minn Red Seal—See Continental Motors Corp Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich Sensation Mower Inc 7577 Burlington St Ralston Nebr Universal Motor Co 487 Universal Drive Oshkosh Wis West Bend Aluminum Co West Bend Wis Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

EQUIPMENT, DIESEL ENGINE—See In-jection Systems, Diesel & Gasoline Engine; also Filters, Fuel (For Diesel Engines); also Motors, Starting (Electric)

ETCHING MACHINES-See Tools, Electric

EXCHANGERS, Heat

Long Mfg Div Borg-Warner Corp 12501 De-quindre St Detroit 12 Mich Yates-American Machine Co Beloit Wis

EXHAUST PIPES-See Pipes, Tail and Exhaust
EXHAUST PURIFIERS, FOR INTERNAL
COMBUSTION ENGINES — See Purifiers,
Exhaust (For Internal Combustion Engines)
EXPANDING MACHINES, HYDRAULIC—See
Machines, Expanding (Hydraulic)
EXPANSION PLUGS—See Plugs, Core Hole
and Expansion

EXTINGUISHERS, Fire (Hand)

Alfite—See American-LaFrance Corp Allen Mig Co 556 W Lake St "hicago II American-LaFrance Corp 157 E LaFrance St Elmira N Y "Alfite" "Foamite" "Valex" "American LaFrance" "Fire-Gun" Ausul Chemical Co., Fire Extinguisher Div.

"American LaFrance" "Fire-Gun"
Ansul Chemical Co., Fire Extinguisher Div.,
Marinette, Wis. (Dry chemical.)
Anthes Force Oiler Co Ft Madison Iowa
Astoria Mfg Co 42-02 Vernon Blvd Long
Island City 1 N Y "Little Giant"
Beacon Devices Inc 74 Oilver St North
Tonawanda N Y (Portable units, inflate
tires or extinguish fires)
Bostwick Laboratories Inc Aerosol Div B T
Babbitt Inc 625 Madison Ave N Y 22 N Y
"Hero"

Buffalo—See Fyr-Fyter Co C-O-Two—See Fyr-Fyter Co D & D—See Heet Div of DeMert & Dough-

C-O-Two-See Fyr-Fyter Co D & D-See Heet Div of DeMert & Dough-erty Inc Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill. Dietz Co It E 225 Wilkinson St Syracuse 1 N Y

Elkhart Brass Mfg Co 1302 W Beardsley Ave Elkhart Ind

Elkhart Ind
Fire-Gun—See American-LaFrance Corp
Fire-Killer Mfg. Co., 167 N. Franklin St.,
Syracuse 1, N. Y
Foamite—See American-LaFrance Corp
Fyr-Fyter Co 221 Crane St Dayton Ohio
"Buffalo" "C-O-Two" "Fyr-Fyter" "Py-

rene General Fire Extinguisher Corp 6801 Rising Sun Ave Philadelphia 11 Pa "General Quick Aid Fire-Guard" (Eastern United States)

States)
General Pacific Corp 8740 Washington Blvd
Culver City Calif "General Quick-Aid
Fire-Guard" (Western United States)
Heet Div of DeMert & Dougherty Inc 3001
W 47th St Chicago 32 III "D&D"
Hero—See Bostwick Laboratories Inc
K-D Lamp Co 1910 Elm St Cincinnati 10
Ohio

ent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich. idde & Co., Walter, 675 Main St., Belle-Kidde & Co., Walter, 673 ville 9, N J Lenk Mfg Co Franklin Ky

Little Glant—See Astoria Mig Co Merlite Industries Inc 114 E 32nd St N Y 16 N Y "Presto" P-K—See Plasti-Kote Inc

P-K—See Plasti-Kote Inc
Plasti-Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohio "P-K"
Power-Pak Products Inc 45 Pearl St Buffalo
2 N Y (Combination tire inflator and fire
extinguisher)
Presto—See Merlife Industries, Inc.
Protectoseal Co 1920 S Western Ave Chicago
8 III

Pyrene—See Fyr-Fyter Co Red Comet Inc Red Comet Bldg Littleton

Safety Fire Extinguisher Co 293 7 Ave N Y 1 N Y

Safety First Products Corp 175 Saw Mill River Rd Elmsford N Y "Safety-First" (Hands): "Safe-T-meter" (Pressurized) Safe-T-meter—See Safety First Products

Safe-T-meter—See Safety First Products
Corp
Seco Engrg & Mfg Inc 1300 W Fort St Detroit 26 Mich

Snyder & Son Inc M L 1827 E York St Phila-delphia 25 Pa "Stempel" Sprazit—See Plasti-Kote Inc Stempel—See M L Snyder & Son Inc Stop-Fire Inc P O Box 9 Monmouth Junc-tion N J

tion N J
Valex—See American-LaFrance Corp
Yankee Metal Products Corp 25 Grand St
Norwalk Conn

EXTRACTORS, Bolt and Screw

Arsco Mfg & Sales Corp 451 Tenth Ave N Y 18 N Y (Stud) 18 N Y (Stud)
Blackhawk.—See New Britain Machine Co
Blue Point.—See Snap-On Tools Corp.
C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)
Cal-Van Machine Products Inc 809 S Water
St Jackson Mich (Screw)
Chicago-Latrobe 426 W Ontario St Chicago
10 Ill (Screw)
Claveland Twist Drill Co., 1242 E. 49th St.

10 Ill (Screw)
Cleveland Twist Drill Co., 1242 E. 49th St.,
Cleveland 14, Ohlo. "Ezy-Out."
Cornwell Quality Tools Co., Mogadore, Ohlo
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, Ill.
Ezy-Out—See Cleveland Twist Drill Co.
Creonfield, Tan & Die Div United Greenfield

Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "Lit-

Groove-Rite Tool Co 40300 Grand River Ave Novi Mich (Piston screw for Pontiac and Oldsmobile cars)

Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Her-brand." "Van Chrome." K R W.-Nelson—See K R Wilson Inc Keystone Keamer & Tool Co., Millersburg.

Pa. Lightnin—See R. J. Loock & Co. Little Giant—See Greenfield Tap & Die Div Loock & Co., R. J., 343 N. Gay St., Balti-more, Md. "Lightnin." (Serew.) Miller Co L B 336 W Main St Stamford Conn

(Stud)
National Machine & Tool Co 4077 Page Ave Jackson Mich (Stud)
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain" OTC—See Owatonna Tool Co. Oldforge—See Quality Tools Corp. Owatonna Tool Co., 342 N. Cedar St., Owatonna. Minn. "OTC."
P& C Tool Co Box 5926 Milwaukte Ore Proto Tools 2209 Santa Fe Ave Los Angeles 54 Calif

Proto Tools 2209 Santa Fe Ave Los Angeles 54 Calif Quality Tools Corp Raliroad St New Wil-mington Pa "Oldforge" (Screw) Reps Tool Co Box 5 Elmwood Branch, Hart-ford 10 Com (Also Stud) Rimac—See Rinck-Mellwaine Inc Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"

Rinck-Mellwaine Inc 16 Hudson St N Y 13 N Y "Rimac"

Roddick Tool Co 1023 Pauline St Anaheim Calif "Wedge-Pruf" (Screw)

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."

Spray Products Corp 725 Kenilworth Ave Merchantville 10 N J

Titan Tool Co E Main St Fairview Pa "Titan-Kirkland" (Combination stud driver and remover)

and remover)
an Ch. me—See Herbrand Div., Bingham-

and remover)
Van Ch. Jome—See Herbrand Div., BinghamHerbrand Corp.
Vermont Tap & Die Corp Main & Grove Sts
Lyndonville Vt (Screw)
Walton Co Box 5 Elmwood Branch Hartford
10 Conn (Stud and screw)
Wedge-Pruf—See Roddick Tool Co
Whitman & Barner Div. of United Drill &
Tool Corp 40085 Plymouth Rd Plymouth
Mich (Screw)
Wilde Drop Forge & Tool Co 2938 Fair-

Mich (Screw)
Wilde Drop Forge & Tool Co 2938 Fairmount Ave Kansas City Mo (Stud)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y (Stud)
N Y (Stud)
Wilson Inc K R Arcade N Y "K R W-Nel-

Zim Mfg Co 3037 Carroll Ave Chicago 12 Ill (Stud)

EXTRUSIONS, Aluminum

Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

YE BOLTS—See Bolts, Eye YE PROTECTORS—See Goggles, Mechanics' and Welders'

FABRIC, Baking (For Upholstery)

Wellington Sears Co 111 W 40th St N Y 1 N Y "Lantuck" (Non-woven; "Knit Kote knit; cotton and synthetic)

FABRIC, Coated Cloth (For Parts) (Including carburetors, diaphragms, gaskets,

valve seats, etc.)
-See du Pont de Nemours & Co Fabrics Div

Fabrics Div

Blossom Mfg Co 2337 McDonald Ave Brooklyn N Y (For fuel pump diaphragms)

Bunalon—See Kem Mfg Co
Cohrlastic—See Connecticut Hard Rubber Co
Col-O-Tex—See Columbus Coated Fabrics

Col-O-Tex—See Columbus Coated Fabrics
Corp.
Columbus Coated Fabrics Corp Seventh &
Grant Aves Columbus 16 Ohio "Col-O-Tex"
"Plastovin"
Connecticut Hard Rubber Co 407 East St
New Haven 9 Conn "Cohrlastic" (Silicone rubber coated)
du Pont de Nemours & Co E I Fabrics Div
Fairfield Conn "Fairprene" (Synthetic
clastomer coated)
Teilrprene—See E. I. du Pont de Nemours &

resin coated)
Fairprene—See E. I. du Pont de Nemours & Co., Fabrics Div.
Haartz-Mason Inc Mechanical Products Inc 270 Pleasant St Watertown 72 Mass (Synthetic rubber coated for fuel pump and oll pressure switch diaphragms and gaskets)
Irvington Varnish & Insulator Div Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N Y
Kem Mfg Co 20-21 Wassars DA Water I.

ton 11 N Y
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn
N J "Bunalon" (For fuel pump dia-

phragms)
Plastovin—See Columbus Coated Fabrics

Reeves Bros Inc 1071 Sixth Ave N Y N Y

"Revecote"
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

FABRIC, Coated Cloth (For Seat Covers, Tops, Upholstery, Etc.)

Athol Mfg Co 71 Chestnut Hill Ave Athol Mass "Terek" "Terson" (For seat covers and upholstery) lossom Mfg Co 2337 McDonald Ave Brook-

and upholstery)
Blossom Mfg Co 2337 McDonald Ave Brooklyn N Y (For curtains)
Brockton Stay Co 24 Essex St Haverhill
Mass (For convertible tops)
Burlington Mills Inc Burlington Wis "BurTex" (Plastic coated, for kick plates, dash
seals, floor coverings, head lining, trunk
lining, etc)

Dur Tex See Burlington Mills, Inc.

Bur-Tex—See Burlington Mills, Inc.
Clair-Tex—See St Clair Rubber Co
Co Hyde—See Interchemical Corp Cotan Co Hyde—See Intercuence
Div
Col-O-Tex—See Columbus Coated Fabrics

Corp.
Columbus Coated Fabrics Corp Seventh &
Grant Aves Columbus 16 Ohio "Col-O-Tex"
(For upholstery and trim)
Consolidated Admiral Co 218 W 65th St N Y
N Y (Plastic coated)
Coverlight—See Reeves Bros Inc
Duncan Co., W. H., 319 Broadway, New
York 7, N. Y. "Dunotex."
Dunotex—See W. H. Duncan Co.
du Pont de Nemours & Co., E. I., Fabrics
Div Fairfield Conn ("Fabrilite" vinyl coated for upholstery and trim "Fairprene" for
tarpaulins) tarpaulins)

tarpaulins)
Durasol—See Masland Duraleather Co.
Duratop—See Textileather Div of General
Tire & Rubber Co
Elastolex—See Textileather Div of General
Tire & Rubber Co
Pabrilite—See E. I. du Pont de Nemours &
Co., Fabrics Div.
Fairprene—See E I du Pont de Nemours &
Co.

Co Federal Leather Co 681 Main St Belleville 9 N J "Fedball" "Fedcarriage" "Fedlas-tic" "Fedroid" "Fedroion" "Fedseat" "Fedtop" "Fedtuff" (Vinyl, pyroxylin and plastic coated) Goodall-Sanford Inc Reading Div Reading

oodall-Sanford Inc Reading Div Reading Mass "Goodalite" (Upholistery; sole distributors Goodall Vinyl Fabrics Inc 1430 Broadway N Y 18 N Y) loodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio "Koroseal" laartz Auto Fabric Co 3 Bridge St Newton 58 Mass "Jonarts Cleaneasy" "Jonarts Stayfast" "Jonarts Haartex" (For tops and decking)

Stayfast" 'Jonarts Haartex" (For tops and decking) Haartz-Mason Inc Mechanical Products Div 270 Pleasant St Watertown 72 Mass (For

270 Pleasant St Watertown 72 Mass (For truck tarpaulins, engine covers, etc)
Hettrick Mfc. Co., Summit & Magnolia Sts.,
Toledo, Ohio
Interchemical Corp Cotan Div 341 Oliver St
Newark 5 N J "Co Hyde"
Jamestown Finishes Inc 125 Blackstone Ave
Jamestown N Y "Tavalon" (For interior trim)

Joanna-Western Mills Co 22nd & Jefferson Sts Chicago Ill (Plastic coated for uphol-stery trim and seat cover) Jonarts Cleaneasy—See Haartz Auto Fabrics

Jonarts Haartex-See Haartz Auto Fabrics

Jonarts Stayfast-See Haartz Auto Fabric

Karavan--See Landers Corp |-See B F Goodrich Industrial Prod-

Karavan—See B F Goodrich Industrial
Korossel—See B F Goodrich Industrial
Korossel—See B F Goodrich Industrial
Landers Corp Buckingham & Blucher Sts
Toledo 1 Ohio ("Karavan" & "Oympia"
for convertible tops: "Versilan" for upholstery and auto trim; "Resilan" for seat
covering)

covering)
Masland Duraleather Co., Amber & Willard
Sts., Philadelphia 34, Pa. "Durasol." (Plastic coated.)

Sts., Philadelphia 34, Pa. "Durasol." (Plastic coated.)
Niagara Fabrics Mfg. Co., 161 Grand St., New York 13. N. Y. (Ton and decking 'Nygen Tolex—See Textileather Div of General Tire & Rubber Co.
Olympia—See Landers Co.
Pantasote Co 415 Madison Ave N Y 22 N Y "Wynsote" (Upholstery)
Reeve Bros Inc 1071 Sixth Ave N Y N Y "Coverlight" (Tarpaulins etc)
Resilan—See Landers Corp
St. Clair Rubber Co., 449 Jefferson Ave., E. Detroit 26, Mich. "Clair-Tex."
Tavalon—See Jamestown Finishing Products Inc
Terek—See Athol Mfg. Co.
Terson—See Athol Mfg. Co.
Textileather Div of General Tire & Rubber Co 607 Madison Ave Toledo 3 Ohio "Textileather" (Pyroxylin coated for upholstery

and trim; "Tolex" & "Nygen Tolex" vinyl coated for upholstery and trim; "Elasto-lex" vinyl coated knit; "Duratop" for tons)

See Textileather Div of General Tire S. Naugahyde—See United States Rubber

Co. United States Rubber Co Rockefeller Cen-ter 1230 Ave of the Americas N Y 20 N Y "U S Naugahyde"

Verslian—See Lamers Corp.
Weymouth Art Leather Co 180 Pearl St
South Braintree 85 Mass "Weymolite"
Weymosol"
Wynsote—See Pantasote Co

FABRIC, Fibre (Seat Cover)

American Cyanamid Co Piastics & Resins
Div 30 Rockefeller Plaza N Y 20 N Y
"Melostrength"
Columbus Fiber Mills Co 45th St & River
Rd Columbus Ga
Lumite Div Chicopee Mills Inc 47 Worth St
N Y 13 N Y "Luxel Fibre"
Luxel Fiber—See Lumite Div Chicopee Mills

Inc Melostrength

Southern Mills Inc 585 Wells St SW Atlanta

3 Ga. Textilene Sunsure—See E. W. Twitchell, Inc. Twitchell, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. "Textilene Sunsure."

FABRIC, Plastic (For Tops, Upholstery and Seat Covers)

and Seat Covers)
Blossom Mfg Co 2327 McDonald Ave Brooklyn N Y (Seat covers)
Bolta Product Div General Tire & Rubber
Co 70 Garden St Lawenree Mass "Boltaffex"
(For upholstery; also quilted for seat covers and trim)
Colovin-See Columbus Coated Fabrics Corp
Columbus Coated Fabrics Corp 7th & Grant
Aves Columbus 16 Ohio "Colovin"

Aves Columbus 16 Ohio "Colovin" Columbus Fiber Mills Co 45th St & River Rd Columbus Ga (Seat cover) Consolidated Admiral Co 218 W 65th St N Y

Duran-See Masland Duraleather Co. Filmtex—See Toscony Fabrics Inc Firestone Plastics Co., P. O. Box 690, Potts-

town Partice Co., F. O. Box 500, Potta-town Par "Velon" Kalletton-See United States Plywood Corp Kullstion-See United States Plywood Corp Lumite Div Chicopee Mills Inc 47 Worth St New York 13 N Y (Upholstery and seat

Masland Duraleather Co., Amber & Willard Sts., Philadelphia 34, Pa. "Duran." (Up-Sts., Philadelphia or, holstery oscony Fabrics Inc 303 Fifth Ave N Y 16 oscony Fabrica Inc 303 Fifth Ave Ridge

Toscony Fabra

N Y "Filmtex"
United States Plywood Corp Weldwood Bldg
55 W 44th St N Y 36 N Y "Kalistion"
"Kaletx"
Velon—See Firestone Plastics Co
Wendell Plastic Fabrics Corp 17 W 17th St
N Y 11 N Y (Seat cover)

FABRIC, Seat Cover

(See also Fabric Coated Cloth; Fabric Plastic [For Tops, Upholstery and Seat Covers]; also Fabric Upholstery) American Cyanamid Co Plastics & Resins Div 30 Rockefeller Plaza N Y 20 N Y

"Melostrength"
Burg Co A S 116 South St Boston Mass
(Rayon and nylon; also rayon and cotton Carlinn Fabrics Corp 81 Essex St Boston 11

Mass (Cotton-rayon and synthetic)
Chixon—See Lumite Div Chicopee Mills Inc
Colovin—See Columbus Coated Fabrics Corp
Columbus Coated Fabrics Corp 7th & Grant
Aves Columbus 16 Ohio "Colovin" (Viny)

plastic)
Elastolex—See Textileather Div
Ellenboro Mills Inc Ellenboro N C "Nycar"
General Tire & Rubber Co Englewood &
Holmes Ave Akron 9 Ohlo "Genfex"
Genflex—See General Tire & Rubber Co
Goodall-Sanford Inc Reading Div Reading
Mass "Goodallite" (Sole distributors Goodall Vinyl Fabrics Inc 1430 Broadway N Y
18 N Y
Gordon & Co B 141 W 17th St N Y 11 N Y
"Saray" (Plastic and rayon)

'Saray" (Plastic and rayon) anish Textile Co 381 Fourth Ave N Y 16

Kranish Textile Co 381 Fourth Ave N Y 16 N Y (Nylon) Lumite Div Chicopee Milis Inc 47 Worth St N Y 13 N Y "Chixon" Melostrength—See American Cyanamid Co Nycar—See Ellenboro Milis Inc Oakland Textile Co., 379 Fourth Ave., New York 16, N. Y. (Nylon.)

Saray—See B Gordon & Co Spradlings, Inc., 1112 S. Grand Blvd., St. Louis, Mo. (Paper fibre, cotton and plas-

tic.)
Textileather Div of General Tire & Rubber
Co 607 Madison Ave Toledo 3 Ohio "Elasto-lex" (Plastic)

FABRIC, Synthetic (For Parts)

(For carburetors, diaphragms, gaskets, valve seats, etc.)

Col-O-Tex-See Columbus Coated Fabrics Corp

Corp Columbus Coated Fabrics Corp 7th & Grant Aves Columbus 16 Ohio "Col-O-Tex" Columbus Fiber Mills Co 45th St & River Rd Columbus Ga (Filters) Wellington Sears Co 111 W 40th St N Y 18 N Y (Filters)

FABRIC, Upholstery

Bedford Cord

Chatham Mfg Co Elkin N C (Sole distribu-tors Getsinger-Fox Co 1715 Fisher Bldg Detroit Mich)

Collins & Alkman Corp 210 Madison Ave New York N Y Ellis Mills, Inc., A. D., Monson, Mass. "Em-berton."

Emberton.—See A. D. Ellis Mills Inc.
Pacific Mills Auto Fabrics Div Pacific Mills
Domestics Corp 1430 Broadway N Y 18 N Y

Boucles

Blumenthal & Co Sidney 1 Park Ave N Y 16 N Y Pacific Mills Auto Fabrics Div Pacific Mills Domestics Corp 1430 Broadway N Y 13 N Y

Broadcloth

Chatham Mfg Co Elkin N C (Sole distributors Getsinger-Fox Co 1715 Fisher Bidg Detroit Mich)
Collins & Alkman Corp., 200 Madison Ave., New York, N. Y.
Ellis Mills, Inc., A. D., Monson, Mass. "Emberton."

Emberton—See A. D. Ellis Mills, Inc.
Pacific Mills Auto Fabrics Div Pacific Mills
Domestics Corp 1430 Broadway N Y 18 N Y

Mohair

Coilins & Aikman Corp., 200 Madison Ave., New York, N. Y.

Nylon

Bachmann Uxbridge Worsted Co Div of Amerace Corp Uxbridge Mass (Sole dis-tributors John W Gillette & Co 991 Stephenson Bldg Detroit Mich) Blumenthal & Co Sidney 1 Park Ave N Y 16 N Y

N Y Candalon—See Collins & Aikman Corp. Chatham Mfg Co Elkin N C (Sole distribu-tors Getsinger-Fox Co 1715 Fisher Bld Detroit Mich) ollins & Aikman Corp 210 Madison Ave New York 15 N Y "Candalon"

Rayon

Bachmann Uxbridge Worsted Co Div of Amerace Corp Uxbridge Mass (Sole dis-tributors John W Gillette & Co 901 Stephenson Bldg Detroit Mich) : Blumenthal & Co Sidney 1 Park Ave N Y 16 N Y

N Y Chixon—See Lumite Div Chicopee Mills Inc Lumite Div Chicopee Mills Inc 47 Worth St N Y 13 N Y "Chixon"

Whipcord

Bachman Uxbridge Worsted Corp., Uxbridge, Mass. (Sole distributor, John W. Gillette & Co., 901 Stephenson Bidg., Detroit, Mich.) Chatham Mfg Co Elkin N C (Sole distribu-tors Getsinger-Fox Co 1715 Fisher Bidg Detroit Mich)

FABRIC CUTTING MACHINES - See Ma-

FABRIC CUTTING MACHINES—See Machines, Fabric Cutting
FABRIC DRILLING MACHINES—See Machines, Fabric Drilling MACHINES—See Machines, Grinding (Face)
FACE PLATE JAWS—See Jaws, Face Plate (Portable)

FACINGS, Clutch

Amco-See Asbestos Mfg Co American Brakeblok Div American Brak Shoe Co Maple Rd East of Crooks R Detroit Mich (Asbestos)

FACINGS, Clutch-continued

Armstrong Cork Co Industrial Div Lancaster Pa (Cork and rubber fibre)

Pa (Cork and rubber fibre)
Asbestos Mfg. Co., E. Sabue St., Huntington,
Ind "Amco" (Asbestos)
Atlas Asbestos Co 469 Walnut St North
Wales Pa (Asbestos)
Gatke Corp., 228 N. LaSalle St., Chicago 1,

Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill (Asbestos)
Grey-Rock Div of Raybestos-Manhattan Inc Manheim Pa (Asbestos also metallic)
J-M-See Johns-Manville
Johns-Manville 22 E 40th St New York 16
N Y "J-M" & "S W" (Asbestos)
National Brake Block Co 37-17 57th St
Woodside 77 N Y (Asbestos)
Raybestos Div of Raybestos-Manhattan Inc
The Main St Stratford 2 Conn (Asbestos)

Raybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M" (Asbestos and

Rex-Hide Brake Lining Co 67 Glenwood Pi East Orange N J (Asbestos)

Rusco See Russell Mig. Co., Russell Mig. Co., E. Main St., Middletown Conn "Rusco" (Asbestos)

Conn "Rusco" (Asbestos) S W—See Johns-Manville Scandinavia Beiting Co 744 Broad St New-ark 1 N J (Asbestos) Thermoid Co Whitehead St Trenton 6 N J

(Asbestos) Wellman Co S K 200 Egbert Rd Bedford Ohio (Metallic) Vorld Bestos Div of Firestone Tire & Rub-ber Co 1112 S 25th St New Castle Ind

FAN BELTS-See Belts, Auto (Fan, Water Pump, Generator, etc.)

FAN DRIVES-See Drives, Engine Fan, Gen-erator, Windshield Wiper, etc (Auto)

Defrosting and Ventilating, FANS, Electric (Auto)

Electric (Auto)
Casco Products Corp., 512 Hancock Ave.,
Bridgeport & Conn. "Casco," "Perfection."
Chemex Corp 41 Murray St N Y 7 N Y
Chicago Mfg Co 411 N Trumbull Ave Chicage
Ill (For buses and trucks)
Diehl Mfg. Co, Finderme Plant, 1011 Finderme Ave., Somerville, N. J. (Ventilating
for buses and trucks)

for buses and trucks)
Evans Products Co 13101 Eckles Rd Plymouth Mich (For trucks)
Ha Dees Heater Div of Gabriel Co 1911 Har-

Ha Dees Heater Div of Gabriel Co 1911 Har-rison Ave Rockford III Lydon-Bricher Mfg. Co., 2500 University Ave., St. Faul 4, Minn. "McKay." (For buses and trucks.) McKay—See Lydon-Bricher Mfg. Co. Perfection—See Casco Products Corp. Roto-Beam, 1755 N. Keeler St., Chicago 35.

Signal Mfg Co 69 Bennett St Lynn Mass

FANS, Exhaust Drying

(For use in connection with drying room equipment)

ABC—See American Blower Corp.
ABC Sirocco—See American Blower Corp.
American Blower Corp., Detroit 32, Mich.
ANIVANG—See Joy Mfg Co
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12,

Buffalo Forge Co 490 Broadway Buffalo 4

N Y
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster. Pa.
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
DeVilbias Co., 300 Phillips Ave., Toledo 1, O.
Emerson Electric Mfg. Co., \$100 Florissant
Ave., Detroit 71. Mich.
Ilg Electric Ventilating Co 2850 N Pulaski
Rd Chicago 41 Ill
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
"Axivane"
K & B—See Kirk & Bium Mfg. Co.
Kirk & Blum Mfg. Co 1120 Forrer St Cincinnati 9 Ohlo "K & B"
M & E Mfg Co 2571 Winthrop Ave Indianapolis 6 Ind

M & E Mfg Co 2571 Winthrop Ave Indianapolis 6 Ind
Spraco—See Spray Engineering Co.
Spray Engineering Co 100 Cambridge St
Burlington Mass "Spraco"
Standard Electric Mfg Co Haddon Ave West
Berlin N J
Westinghouse Electric Corp., Sturtevant
Div., 15 Damon St., Hyde Park, Boston 36,

FANS, Radiator

Autofan—See Hayes Industries Inc Bull Dog—See Jambor Tool & Stamping Co. Eaton Mg. Co., 739 E. 40th St., Cleveland 10, Ohlo. Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich. "Autofan."

Hy Duty-See Schwitzer Corp Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog" (For Ford

Milwaukee 10 Wis "Bull Dog" (For Ford and Chevrolet cars) Schwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind "Hy Duty"; "Thermatic" (Thermostatically controlled) Service Products Corp 201 S Rural St In-dianapolis 1 Ind Thermatic—See Schwitzer Corp

FASTENERS, Belt

Alligator—See Flexible Steel Lacing Co.
Clipper Belt Lacer Co., 974 Front Ave., N.
W. Grand Rapids 2, Mich.
Flexco—See Flexible Steel Lacing Co.
Flexible Steel Lacing Co. 4607 Lexington St.
Chicago 44 Ill "Alligator" "Flexco" "Flex

Flexible Steel Lacing Co 4607 Lexington St Chicago 44 Ill "Alligator" "Flexco" "Flex V." "Turtle" Flex V.—See Flexible Steel Lacing Co. Greene Tweed & Co North Wales Pa "Moran's."

Gripper—See Rawhide Products Co. Micran's—See Greene, Tweed & Co. Hawhide Products Co. Michigan Ave.. Kenilworth, N. J. "Gripper."

Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del Stevens Co., A. T., 118 E. 28th St., New York 16, N. Y.

Superior—See Western Rawhide & Belting Co.

Turtle—See Flexible Steel Lacing Co

Co. Turtle—See Flexible Steel Lacing Co Western Rawhide & Belting Co., 131 E Washington St., Milwaukee, Wis. "Su

FASTENERS, Hood

Attwood Brass Works Inc 303 Dougles St NW Grand Rapids Mich Chicago Forging & Mig Co 2000 Southport Ave Chicago 14 III Eberhard Mig. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Obio

Ring-Wald Products 123 N Lowry Ave

FASTENERS, Molding and Trim

Airloc—See Monadnock Mills Anchor—See National Autocraft Mfg Co Carr Fastener Co 31 Ames St Cambridge Mass "Dot"

Mass "Dot"
Dot—See Carr Fastener Co
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill (Molding)
Gagnier Fibre Products Co 10151 Capitol Ave
Oak Fark Detroit 37 Mich "Trimclip"
Monadnock Mills 1977 First Ave San Leandro
Calif "Airloc"
National Autocraft Mfg Co 2710 N Orange
Ave Orlando Fla "Anchor" (Body molding clip)

Ave Orianuo ria ing clip)
Production Die & Stamping Co 1034 Garfield Ave Detroit 7 Mich (Molding clips)
Servweil Products Co 6519 Euclid Ave Cleve-land 3 Ohio
Shakeproof Div of Illinois Tool Works St
Shakeproof Div Of Illinois Tool Works St

land 3 Ohlo Shakeproof Div of Illinois Tool Works St Charles Rd Elgin III United-Carr Fastener Corp 31 Ames St Cam-bridge 42 Mass (Molding) Vanco Products Inc 15230 Brookpark Rd Cleveland 11 Ohlo

FASTENERS, Sheet Metal

(For use with or without screws) (For use with or without screws)
Airloc—See Monadnock Mills
Carr Fastener Co 31 Ames St Cambridge
Mass "Dot"
Champ-Items Inc 6191 Maple Ave St Louis
14 Mo
Dalsy—See Huck Mfg Co
Dot—See Carr Fastener Co
Dual-Lock—See Simmons Fastener Corp
Dzus Fastener Corp P O Box 185 Babylon
L I N Y
General Tire & Rubber Co Industrial Products Div Vibrex Dept Wabash Ind "General Vibrex"
Hassall Inc John P O Box 2194 Westbury L I
Hassall Inc John P O Box 2194 Westbury L I

N Y
Hinge-Lock—See Simmons Fastener Corp
Huck Mfg Co 2480 Bellevue Ave Detroit
7 Mich "Dalsy"
Lamson & Sessions Co 5000 Tiedeman Rd
Cieveland 9 Ohio
Link-Lock—See Simmons Fastener Corp
Monadnock Mills 1977 First Ave San Leandro
Calif "Airloc"
Palnut Co 54 Glen Rd Mountainside N J
"Pushnuta"

"Pushnuts"
Prestole Corp 1351 Miami St Toledo 5, Ohio

Pushnuts—See Palnut Co Quick Lock—See Simmons Fastener Corp. Rosan Inc 2901 W Coast Highway Newp. Beach Calif "Rosan Press-Nut" Roto-Lock—See Simmons Fastener Corp

Simmons Fastener Corp 1749 N Broadway Albany N Y "Dual-Lock" "Link-Lock" "Culck Lock" "Roto Lock" "Spring Lock" "Hinge-Lock" "Roto Lock" "Spring Lock" South Chester Corp Southco Div 228 Industrial Highway Lester Pa "Southco" Southco—See South Chester Corp. Speed Nuts—See Tinnerman Products, Inc. Spring Lock—See Simmons Fastener Corp. Tinnerman Products inc 8700 Brookpark Rd Cleveland Ohio "Speed Nuts" United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass Vol-Shan Mig Co 8463 Higuera St Culver City Calif

FASTENERS, Slide

Automotive Spring Inc., 2627 Magnolia Ave. Detroit 8, Mich. Falcon—See Talon Inc Plastic-Zip—See Talon Inc

Plastic-Zip—See Talon Inc Steck Mg Co 1312 Bolander Ace Dayton 8 Ohio (Trim) Talon Inc 626 Arch St Meadville Pa "Talon" "Falcon" "Plastic-Zip" (Plastic) Waldes Kohinoor Inc 67-16 Austel Pl Long Island City 1 N Y

FASTENERS, Snap

(For fastening metal trim, upholstery, moldings, etc.)

moldings, etc.;
Acme—See Scovill Mfg. Co.
Cuyahoga Spring Co 10252 Berea Rd Cleveland 2 Ohio
Deflance Button Machine Co., 43-47 W. 24th
St., New York, N. Y.
Gripper—See Scovill Mfg. Co.
Permax—See Scovill Mfg. Co.
Scovill Mfg. Co., 99 Mill St., Waterbury Zu.
Conn. "Acme," "Gripper," "Permex,"

Trilok.—See Scovill Mfg. Co.
United-Carr Fastener Corp., 21 Ames St.,
Cambridge 42. Mass.

FASTENERS, STORAGE BATTERY — See Clamps, Battery Hold Down

FASTENERS, Upholstery and Seat Cover

Cover
Atlas Lock Corp 1079 Pleasant St Fairhaven
Mass (Hog rings)
Auto Vehicle Parts Co 1032 Saratoga St
Newport 6 Ky
Carr Fastener Co 31 Ames St Cambridge
Mays "Dat"

Carr Fastener Co 31 Ames St Cambridge Mass "Dot"
Decker Mfg Co 312 Blondeau St Keokuk Iowa Dot—See Carr Fastener Co
Handy Button Machine Co 2255 S Rockwell St Chicago 8 Ill (Hog rings)
Niagara Fabric Mfg Co 161 Grand St N Y 13 N Y (Seat cover pins)
Republic Fastener Products Corp., 43-11 Crescent St., Long Island City 1, N. Y. (Hog rings and pins.)
WW—See Western Wire Products Co Western Wire Products Co Western Wire Products Co (Hog rings and pins.)
WW—See Western Wire Products CoWestern Wire Products Co 1415 S 18th St St
Louis Mo "WW" (Hog rings)

FAUCETS, Barrel or Drum
(For oil, gasoline and anti-freezing solution)

(For oil, gasoline and anti-freezing solution)
Agner Simplex Co 607 Pine St Burlington Wis "Simplex" (Oil barrel)
Burlington Brass Works Burlington Wis "Burwis" (Self-closing)
Burwis-See Burlington Brass Works Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III
Littlestown Hardware & Foundry Charles St Littlestown Pa (Drum)
Morse Mfg Co 727 W Manlaus St East Syracuse N Y
Samco—See Syrall Mfg Co
Sherman Mfg. Co., H. B., 22 Barney St. Battle Creek, Mich. (Oil drum.)
Simplex-See Agner Simplex Co.
Syrall Mfg Co 511 N State St Syracuse 2
N Y "Samco" & "Syrall"

ucts Div videax Dept wabash ind General Videax"

Hassall Inc John P O Box 2194 Westbury L I N Y Hinge-Lock—See Simmons Fastener Corp Huck Mfg Co 2480 Believue Ave Detroit 7 Mich 'Dalsy' Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio Cleveland 9 Ohio Fastener Corp Title Inc 888 92nd Ave Oakland 2 Calif' Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill

Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa. Morrison Bros. Co., 2401 Elm St., Dubuque.

Iowa.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son Div. of Scovill Mfg. Co., A.,
470 Vanderbilt Ave., Brooklyn 17, N. Y.
Sherman Mfg. Co., H. B., 22 Barney St.,
Battle Creek, Mich.
Tru-Flate—See Druge Bros. Mfg. Co.

FEEDS. Machine Tool

Lipe-Rollway Corp 806 Emerson Ave Syra-cuse 4 N Y (For bar automatic machines)

FELT, INSULATING—See Insulation, Felt, Hair, Paper, etc.

FELT, Polishing and Rubbing

AAAA—See American Felt Co. American Felt Co. Glenville, Conn. "AAAA."
Bacon Felt Co 427 W Water St Taunton
Mass "Paramount" Mass "Paramount"

Booth Felt Co 100 Water St Brooklyn 1 N Y

Brawley Felt Co., T. R., 272 20th St., Brooklyn, N. Y.

Commonwealth Felt Co., 74 Summer St.,

Boston 9, Mass, "Perfection."

Continental Felt Co 22 W 15th St N Y 11

N Y "Vel. Fel"

N Y "Vel-Fel"

Fel-Pro-See Felt Products Mfg. Co

Felt Products Mfg Co 7450 N McCormick

Blvd Skokie Ill "Fel-Pro"

Paramount-See Bacon Felt Co.

Perfection-See Commonwealth Felt Co.

Rhodes & Co., James H., 153 W. Hubbard

St., Chicago 10, Ill.

Rhopac Inc 3425 Cleveland St Skokie Ill

Standard Felt Co 29-115 S Palm Ave Al
hambra Cal

Vel-Fel-See Continental Felt Co.

hambra Cal Vel-Fel—See Continental Felt Co Western Felt Works 4021 W Ogden Ave Chi-

FELT, Sheet

(For felt washers or gaskets—see Washers, Felt)

Washers, Feit)

AAAA—See American Feit Co., American Feit Co., Glenville, Conn. "AAAA."

Auburn Mfg Co Pease Ave & Stack St Middletown Conn

Bacon Feit Co. 427 W Water St Taunton

Mass "Paramount"

Booth Feit Co. 100 Water St Brooklyn 1

N. Y.

N. Y.
Colossus—See Rhodes & Co.
Commonwealth Felt Co.. 74 Summer St.,
Boston 9, Mass. 'Perfection."
Continental Felt Co. 22 W 15th St N Y 11
N Y "Vel-Fel"
Felt Products Mfg Co 7450 N McCormick
Blvd Skokle Ill
Paramount—See Bacon Felt Co.
Perfection—See Commonwealth Felt Co.
Rhodes & Co., James H., 153 W. Hubbard
St. Chicago 10, Ill. "Colossus"
Rhopac Inc 3425 Cleveland St Skokle Ill
Standard Felt Co 29-115 S Palm Ave Alhambra Callf
Sutherland Leather & Felt Co., 743 Beau-

hambra Calif Sutheriand Leather & Felt Co., 743 Beau-bien St., Detroit 26, Mich. Vel-Fel—See Continental Felt Co

Western Felt Works 4021 W Ogden Ave Chi-cago 23 Ill

FELT, Upholstery

(For use in place of hair or moss; see also Hair, Uphoistery; also Moss, Up-holstery)

hoistery)

AAAA—See American Felt Co.
American Felt Co.. Glenville. Conn. "AAAA."
American Forest Products Co Box 911 Norristown Pa
American Hair & Felt Co 322 Merchandise
Mart, Chicago 54, Ill.
Booth Felt Co 100 Water St Brooklyn 1
N. Y.
Burkast Mar.

Booth Felt Co 100 Water St Brooklyn 1
N. Y.
Burkart Mfg Co F Div of Textron Inc 4900
N Second St St Louis 7 Mo
Commonwealth Felt Co., 74 Summer St.,
Boston S. Mass. "Perfection."
Continental Felt Co 22 W 15th St N Y 11
N Y "Vel-Fel"
Felt Products Mfg Co 7450 N McCormick
Blvd Skokie Ill
Perfection—See Commonwealth Felt Co.
Vel-Fel—See Continental Felt Co
Western Felt Works 4021 W Ogden Ave Chicago 23 Ill
FENDER BRACKETS—See Brackets, Fender
(Truck)

(Truck)
FENDER GRILLE GUARDS — See Guards,
Raciator Grille, Fender and Trunk
FENDER HOUSINGS—See Housings, Wheel

and Fender
FENDER ROLLING MACHINES — See Machines, Forming (Cold Roll)
FENDER WELTS—See Welts, Fender

FENDERS, Auto, Truck and Trailer

Anderson Co O L 1347 E Fort St Detroit 7 Mich (Hood and fender assemblies) Ansted Corp 1428 W Henry St Indianapolis

7 Ind Bath Co Cyril 22280 Aurora Rd Solon Ohio Binkley Mfg Co Warrenton Mo (Truck) Budd Mfg, Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.

Champion Sheet Metal Co 2 Squires St Cortland N Y (Trucks to order) Chicago Mfg Co 411 N Trumbull Ave Chicago

Cook Metal Works Inc 237 S Campbell Ave

Cook Metal Works Inc 237 S Campbell Ave Mishawaka Ind Cutier Metal Products Co., 1925 Line St., Camden, N. J. Hart Metal Products Corp 2332 Hammond Ave Eighart Ind Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.) Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck and utility trailer.)
Stolper Steel Products Corp 200 Pilgrim Rd Menomonee Falls Wis York Corrugating Co Adams St & W Md R R York Pa (Truck and trailer)
Youngstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio (Truck)

FIBRE, FABRIC (FOR SEAT COVERS)—See Fabric, Fibre (Seat Cover)

FIBRE, Hard

(Sheet rod and tube)

Acme Mfg. & Gasket Co., 738 N. 41st St. Philadelphia 4, Pa. Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del
Continental-Diamond Fibre Corp Newark 10

'Diamond' Densite—See West Virginia Pulp & Paper

amond-See Continental - Diamond Fibre Corp lectrite—See West Virginia Pulp & Paper

Co Frankin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa. Milonite—See Morley Co. Morley Co., 865 Islington St., Portsmouth N. H. "Milonite."
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Vulcanized.)
Spaulding Fibre Co., 210 Wheeler St., Tonawanda, N. Y.
Taylor Fibre Co., Norristown, Pa. (Vulcanized.)

canized.)

canized.)
United Packing & Gasket Engrg Corp 5111
Ogden Ave Cicero 50 III
West Virginia Pulp & Paper Co. (Pulp Products Dept.), 230 Park Ave., New York 17,
N. Y. "Electrite," "Densite"
Wilmington Fibre Specialty Co New Castle

Dei Tisconsin Gasket & Mfg. Co., 8724 N. Gran-ville Rd., Granville, Wis. Vrought Washer Mfg Co 2107 S Bay St Mil-waukee 7 Wis (Washers) Wrought

FIBRE, Laminated

Continental-Diamond Fibre Corp Newark 10 Del "Diamond" "Vulcoid" Diamond—See Continental - Diamond Fibre

Diamond—See Technical Ply-Wood Sales Corp Fybr-Tech—See Technical Ply-Wood Sales Penn Fibre & Specialty Co 2024 E Westmore-land St Philadelphia 34 Pa Technical Ply-Wood Sales 6756 Crandon Ave Chicago 49 Ill "Fybr-Tech" (With wood) ill "Fybr-Tech" (With wood) Continental-Diamond Fibre Vulcoid-See Corp Wilmington Fibre Specialty Co New Castle

FIBRE PARTS—See Parts, Fibre
FIFTH WHEELS—See Wheels, Fifth
FILE CLEANING BRUSHES—See Brushes,
File Cleaning

FILES and RASPS

'ILES and KASPS

American—See Nicholson File Co; also
Simonds Saw & Steel Co
American Swiss—See Heller Tool Co; also
Simonds Saw & Steel Co
Arcade—See Nicholson File Co.
Arkins Saw Div Borg-Warner Corp 402 S
Illinois St Indianapolis 9 Ind "Bilver Steel"
Black Diamond—See Nicholson File Co.
Blue Point—See Snap-On Tools Corp
Blue Strask—See Nicholson File Co.

Blue Straak—See Snap-On Tools Corp
Blue Straak—See Nolvex File Co
Disston Div H K Porter Co Unruh & Milnor
Sts Tacony Philadelphia 35 Pa
Dixon, Inc., William, 32 E. Kinney St.,
Newark, N. J.

Do All Co., 254 N. Laurel Ave., Des Plaines, Ill. (Band files.) Eagle—See Nicholson File Co. Great Western—See Nicholson File Co.

Helier Tool Co Helier Dr Newcomerstown
Ohio "Nucut" (American pattern, "American Swiss" Swiss pattern files "Vixen"
milled curved tooth files)
J. Barton Smith—See Nicholson File Co.
Kearney & Foot—See Nicholson File Co.
McClellan—See Nicholson File Co.
McClellan—See Nicholson File Co.
McClellan—See Nicholson File Co.
McClellan—See Nicholson File Co.
J. R. I. "American" "Arcade" "Black
Diamond" "Eagle" "Great Western" "J.
Barton Smith" "Kearney & Foot" "McClellan" "Nicholson" "X-F"
Nolvex File Co 10329 Detroit Ave Cleveland 2
Ohio "Blue Streak" (American pattern;

Cleilan" "Nicholson" "X-F"
Nolvex File Co 10329 Detroit Ave Cleveland 2
Ohio "Blue Streak" (American pattern;
"Nolvex" Milled curved tooth)
Nucut—See Heller Tool Co
Severance Tool Industries Inc 711 Iowa Rd
Saginaw Mich (Rotary and carbide hand)
Silver Steel—See Atkins Saw Div BorgWarner Corp
Simonds Saw & Steel Co 470 Main St Fitchburg Mass "American" (American pattern "American-Swiss" Swiss nattern
files "Vixen" milled curved-tooth files)
Snap-On Tools Corp., 8046 28th Ave., Kenosha. Wis. "Blue Point."
Vixen—See Simonds Saw & Steel Co; also
Heller Tool Co
Wycon—See Wyzenbeek & Staff, Inc.
Wyzenbeek & Staff Inc 223 N California Ave
Chicago 12 Ill "Wyco" (Tire rasps)
X-F—See Nicholson File Co.

FILLERS, Plastic and Metallic (For Body Panels, Fenders, Etc.)

(See also Solder)

(See also Solder)

Atomized Materials Co 207 Rauch Bidg Pitrsburgh 5 Pa "Speed Bond"
Blue Ribbon Nu-Met-L—See International Metal Polish Co Bondi-Mud—See Fibre Glass-Evercoat Co Bondo Div Jaycee Chemical Corp Forest Rd Northford Conn (Plastic fiberglass)
Boyle-Midway Inc 22 E 40th St N Y 16 N Y "Plasteele" (Plastic)
Econite Miracle Products Inc 207 W Main St Morganfield Ky (Plastic)
Everfix—See Fibre Glass-Evercoat Co Fibre Glass-Evercoat Co 7220 Vine St Cincinnati 16 Ohio "Bodi-Mud" "Everfix" "Formula 27"
Formula 27"
Formula 27—See Fibre Glass-Evercoat Co Hollingshead Corp R M 840 Cooper St Cam den N J "Met-L-it" (Plastic)
International Metal Polish Co 1910 Quill S Indianapolis 7 Ind "Blue Ribbon Nu-Met L'" (Metallic) L" (Metallic)

L" (Metallic)

McKay Co 1005 Liberty Ave Pittsburgh 22
Pa "Metal-Fil" (Plastic)

Marson Corp 11 Mill St Revere 51 Mass
"Mar-Tite" (Metallic resin)

Mar-Tite-See Marson Corp

Metal-Fil—See McKay Co

Metal-Fil—See W J Ruscoe Co

Met-L-Fil—See R. M. Hollingshead Corp.

Minnesota Mining & Mfg Co 900 Bush Ave
St Paul 6 Min "3M" (Epoxy resin)

Plasteele—See Boyle-Midway Inc

Plasteele—See Boyle-Midway Inc Ren Plastics Inc 5422 S Cedar Rd Lansing 4 Mich

Ruscoe Co W J 483 Kenmore Blvd Akron 1 Ohio "Met-L-Fil" Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio "Metal-Fix" Speed Bond—See Atomized Materials Co

Swiss Laboratory 1533 Hamilton Ave Cleve-land 14 Ohio 3M—See Minnesota Mining & Mfg Co

FILLERS, RADIATOR-See Faucets, Radia-

VEL-FEL

the finest name in felt

FELT OF ALL KINDS - FELT FOR ALL USES COMPLETE TECHNICAL SERVICE AVAILABLE

CONTINENTAL FELT COMPANY. INC. N. Y. 11, N. Y. 22 West 15th St. **WAtkins 9-5262**

Circle 226 on Inquiry Card for more data

FILTER BOWLS—See Bowls, Filter FILTERS Air (Auto)—See Cleaners Air Car-buretors (Auto)

FILTERS, Air (Machinery)

(For installation on stationary engines, air compressors, etc.)
(See also Cleaners, Air (Machinery)

Air-Mase Corp 25000 Miles Rd Cleveland 28 Ohio Bantam Bully-See Superior Pneumatic &

Bantam Bully—See Superior Freumatic of Mfg Inc.
Bendix-Skinner Div Bendix Aviation Corp 434 W 12 Mile Rd Royal Oak Mich
Big Four Industries Inc 5938 Carthage Court Cincinnati Ohio "Big-Four Dri-Clean"
Commercial Filters Corp 2 Main St Melrose 76 Mass "Fulfio"
Crown—See Hannifin Co
Cuno Energy Corp 80 S Vine St Meriden

Conn
Dollinger Corp., 20 Centre Park, Rochester 3,
N. Y. "Staynew."
Fulflo—See Commercial Filters Corp.
Hannifn Co 615-D S Wolf Rd Des Plaines
III "Crown"
Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich

Master Preumatic 20439 Sherwood Ave De-troit 34 Mich Modernair Corp 400 Freas St San Leandro Callf

Calif
Norgren Co C A 3400 S Elati St Englewood
Calif (Cylinders and power tools)
Staynew—See Dollinger Corp.
Superior Pneumatic & Mfg Inc 4758 Warner
Rd Cleveland 25 Ohio "Bantam Bully"
Wilkerson Corp 1601 W Girard Ave Englewood Colo

FILTERS, Cutting Oil

(For cutting oil reclaimers—See Re-claimers, Cutting Oil) Barnes Drill Ce 826 Chestnut St Rockford III

"Kleenall"
Bowser Inc 1302 E Creighton Ave, Ft Wayne
2 Ind

2 Ind
Briggs Filtration Co Automotive Div River
Rd Washington 16 D C
CFC—See Indiana Commercial Filters Corp
Commercial Filters Corp 2 Main St Melrose
76 Mass "Fulfio"

Cuno Engrg Corp 80 S Vine St Meriden

Conn
DeLaval Separator Co Poughkeepsie N Y
Delpark—See Indiana Commercial Filters
Corp Delpark Div
Fulfio—See Commercial Filters Corp.
Hoffman—See United States Hoffman Mchy

Honan-Crane—See Indiana Commercial Fil-

diana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Honan-Crane"

"CFC"
Indiana Commercial Filters Corp Delpark
Div Lebanon Ind "Delpark"
Kleenall—See Barnes Drill Co
Murray-Way Corp (P O Box 180) Maple Rd
E Birmingham Mich
Skinner Purifiers Div. of Bendix Aviation
Corp., 1500 Trombly Ave., Detroit 11, Mich.
United States Hoffman Machinery Corp Industrial Filtration Div 103 Fourth Ave N Y
3 N Y "Hoffman"
W. G. B. Oil Clarifier, Inc., 139 Cornell St.,
Kingston, N. Y.

FILTERS, Engine Coolant

American Octanator Corp 549 Reservoir St Cranston R I "Gazda Derusticator" (Mag-

netic) fram Corp Providence 16 R I Gazda Derusticator—See American Octa-Gazda Derusticator—See American Octa-nator Corp Perry Filter Div R M Hollingshead Corp 840 Cooper St Camden 2 N J

FILTERS, Fuel (For Diesel Engines)

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Air-Maze Corp 25000 Miles Rd Cleveland 28

Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohlo
American Bosch Div American Bosch Arma
Corp 3664 Main St., Springfield 7 Mass
Bendix-Skinner Div Bendix Avlation Corp
434 W 12 Mile Rd Royal Oak Mich
Briggs Filtration Co Automotive Div River
Rd Washington 16 D C
Commercial Filters Corp 2 Main St Melrose
76 Mass "Fulfio"
Curp Engre Corp 80 S Vine St Meriden Coun

76 Mass "Fulfio"
Cuno Engrg Corp 80 S Vine St Meriden Conn
DeLuxe Products Corp 1200 Michigan Bivd
Racine Wis
Filterall—See Permanent Filter Corp
Fram Corp Providence 16 R 1

Fulfio—See Commercial Filters Corp Hilco—See Hilliard Corp. Hilliard Corp., 113 W. Fourth St., Elmira, N. Y. "Hilco."

N. T. "Hileo." Indiana Commercial Filters Corp 415 In-dianapolis Ave Lebanon Ind "Michiana" Luber-Finer Inc., 2514 S. Grand Ave., Los Angeles 7, Calif. Michiana—See Indiana Commercial Filters

Corp
Permanent Filter Corp 1800 W Washington
Blyd Los Angeles 7 Calif "Filterall"
Purolator Products Inc 970 New Brunswick
Ave Rahway N J Inc 970 New Brunswick
Kingston, N. F.
Winslow Engrg & Mtg Co 4069 Hollis St
Oakland 8 Calif

FILTERS, Gasoline (Auto)

FILTERS, Gasoline (Auto)
(Filter assemblies for use between tank and carbureter to remove dirt and water; for gasoline strainers only—See Strainers, Gasoline)
AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Aico—See Alloy Mfg Corp
Alloy Mfg Co 3207 S Snields Ave Chicago 16, Ill. "Alco," "Alloy," "Quality Bullt."
Autopulse—See Electric Autopulse Div Bendix-Skinner Div Bendix Aviation Corp 434 W 12 Mile Rd Royal Oak Mich Carter Carburetor Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo Century Gas Equipment Co Marvel-Schebler Products Div Borg-Warner Corp 625 Southside Drive Decatur III Champ-Items Inc 6191 Maple Ave St Louis

Froducts Div Borg-Warner Corp 625 South-side Drive Decatur III Champ-Items Inc 6191 Mapie Ave St Louis 14 Mo Chilton Metal Products Inc 300 Breed St Chilton Wis Cuno Engrg Corp 80 S Vine St Meriden Conn

Conn
Conn
Conn
Conn
Conn
Conn
Conn
Durex—See Moraine Products Div., General
Motors Corp.
Electric Autopulse Div Walbro Corp Cass
City Mich "Autopulse"
Engine Accessories Mig Co 5801 E Beverly
Elvid Los Angeles 22 Calif "Perma-Bronze"
Ensign Carburetor Co 1551 E Orangethorp
Ave Fullerton Calif (LP-gas)
Fil-Trap—See Tillotson Mig. Co.
Filterall—See Permanent Filter Corp
Fram Corp Providence 16 R I
Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd L I City 1
N Y
Imperial Brass Mig. Co. 2800 W.

N Y

Imperial Brass Mfg Co 6300 W Howard St
Chicago 31 III
J & S Carburetor Co 2634 N Beckley Ave
Dallas Z Tez (LP-gas)
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn
N J "Micro-Bronze"
Klemm Automotive Products Co., 1718 N
Damen Ave., Chicago 47, III.
Micro-Bronze—See Kem Mfg Co
Moraine Products Div., General Motors Corp.,
1420 Wisconsin Blvd., Dayton, Ohlo.
"Durex."

FINISHING SYSTEMS
De Vilibiss Metal Fabricat
Rd Detroit 12 Mich
Mahon Co R C 6565 E 8 Mich
FIRE APPARATUS, MO
Trucks, Fire
FIRE EXTINGUISHERS—8
FIRE PROPERS — See Hose, Fire

Perma-Bronze—See Engine Accessories Mfg

Co
Permanent Filter Corp 1800 W Washington
Blvd Los Angeles 7 Calif "Filterall"
Purolator Products Inc 370 New Brunswick
Ave Rahway N J
Quality Built—See Alloy Mfg. Co.
Sparkler Mfg Co Lake St Mundelein Ill
Tillotson Mfg Co 761 Berdan St Toledo 12
Ohio "Fil-Trap"
Zenith Carburetor Div. of Bendix Aviation
Corp., 696 Hart Ave., Detroit 14, Mich.

FILTERS, Oil (For Attaching to Engines)

(See also Strainers, Oil) AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Ace—See Champion Laboratories Inc Baldwin Mig Co J A P O Box 656 Kearney

Nebr Bendix-Skinner Div Bendix Aviation Corp 434 W 12 Mile Rd Royal Oak Mich Bolser Corp S Main St Cedar Falls Iowa "Re-Pak-it"

"Re-Pak-it"

Briggs Filtration Co Automotive Div River
Rd Washington 16 D C
Cel-Pak—See Fram Corp
Champ—See Champion Laboratories Inc
Champion Laboratories Inc Box 189 West
Salem, Il "Ace" "Champ" "Sliver Bullet"
Commercial Filters Corp 2 Main St Melrose
76 Mass "Fuifio"
Continental Mfg Corp 10411 W Washington
Blyd Culver City Callf "Life-Time"
Cuno Engrg Corp 30 S Vine St Meriden
Cona

Cuno Engrg Corp 80 S Vine St Meriden Conn Danco—See Danielson Mfg Co Danielson Mfg Co Danielson Conn "Danco" DeLuxe Products Corp 1200 Michigan Ave Racine Wis Duocron—See Walker Mfg Co of Wis

Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Improved-

Blvd Los Angeles 22 Calif "improved-Lifetime" Permanent Filter Corp Fram Corp Providence 16 R I "Cel-Pak" "Fram Filcron" Fulfo-See Commercial Filters Corp Hastings Mfg Co N Hanover St Hastings

Mich Hilco—See Hilliard Corp Hilliard Corp 113 W Fourth St Elmira N Y "Hilco" Hutchens Industries Inc 1206 Western Ave Eau Claire Wis

Fau Claire Wis Improved-Lifetime—See Engine Accessories Mfg Co Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Michiana" International Refinol Co 6513 W Fershing Rd Berwyn II "Refinol"

Berwyn Ill "Refinol" Lee Filter Corp 41 River Rd North Arlington N. J.

N J Life-Time—See Continental Mfg Corp Luber-Finer Inc., 2514 S. Graud Ave., Los Angeles 7, Calif. Mchiana—See Indiana Commercial Filters

Corp urent & Co Wm W 3440 Cleveland St Skokie Ill

kle III
Olipure Refiner Co., 5406 San Fernando Rd., Glendale, Calif.
Permanent Filter Corp 1800 W Washington Blyd Los Angeles 7 Calif "Filterall"
Pick Mfg Co West Bend Wis
Purolator Products Inc 970 New Brunswick Ave Rahway N J
Refinol—See International Refinol Co
Re-Pak-It—See Bolser Corp.
Silver Bullet—See Champion Laboratories Inc

Inc
W. G. B. Oll Clarifler, Inc., 139 Cornell St.,
K'ingston, N. Y.
Walker Mfg Co of Wis 1201 Michigan Blvd
Racine Wis "Walker DeLuxe" "Duceron"
Winslow Engrg & Mfg Co 4069 Hollis St
Oakland & Calif
Wix Corp 1211 Ozark St Gastonia N C "WixO-Matic"

FILTERS, Oil (Transmission)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich

FILTERS, RADIO IGNITION—See Radio Accessories (Auto)

De Villbiss Metal Fabricators Co 17900 Ryan Rd Detroit 12 Mich Mahon Co R C 6565 E 8 Mile Rd Detroit 14

APPARATUS, MOTORIZED - See

FIRE EXTINGUISHERS—See Extinguishers,

FIRE HOSE-See Hose, Fire

FIRE TRUCKS, INDUSTRIAL—See Trucks, Fire (Industrial)

FITTINGS, AUTOMOBILE and TRUCK ee Hardware, Automobile and BODY - See Truck Body

FITTINGS, Bus

(Including all hardware and irons used in bus body construction; such as enameled pipes, stanchions, seat irons, etc.)

Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich Rd Solon Ohio Moore & Co., Samuel, Mantua, Ohio. "Rub-Bub." (Stanchions and grab rails.)

Rub-Bub-See Samuel Moore & Co Tompkins H S 188 Chambers St New York 7 N Y Troy Sunshade Co Troy Ohio (Stanchions and grab rails)

ITINGS HEATER—See Parts and Fit-

TTINGS HEATER—See Parts and Fit-tings Heater

FITTINGS, Lubricating

(For guns for use with fittings, see Lubricators, Hand)

Lubricators, Hand)

Alemite—See Stewart-Warner Corp.

Aro Equipment Co., Bryan, Ohio.

Balcrank, Inc., Disney St. nr. Marburg. Cincinnati, Ohio.

Bowen Products Corp Auburn N V

Bullneck—See Lincoln Engrg Co

Coronet Parts Mfg Co 883 Elton St Brooklyn

8 N Y

Gits Bros Mfg Co 1846 S Kilbourn Ave Chi-cago 23 Ill

Graco-See Gray Co.

151

Gray Co 54 11th Ave N E Minneapolis 13 Minn. "Graco."
Kleenseal—See Lincoln Engrg Co Lightnin—See R J Loock & Co Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Bullneck" & Kleenseal"
Loock & Co R J 343 N Gay St Baltimore Md

"Lightnin"
Planet Metai Products Corp 964 Dean S.
Brooklyn 16 N Y
Stewart-Warner Corp., Alemite Div., 1826
Diversey Parkway, Chicago 14, Ill. "Alemite."

mite. Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

FITTINGS. Tank

Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich

FITTINGS, Tube (Aluminum)

(Unions, tees, ells, etc., for connecting small size aluminum tubing)

small size aluminum tubing)

Chicago Forging & Mfg. Co., 2000 Southport Ave., Chicago 14, Ili. "Sealastic."

Hi-Duty—See Imperial Brass Mfg Co 6300 W Howard St. Chicago 31 Ili "Hi-Duty" & "Imperial"

Masters Inc Irvin W 1060 N Lake St Burbank Calif

Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12

Ohio "Triple-Lok" (Flare)

Cealastic—See Chicago Forging & Mfg Co

Triple-Lok—See Parker-Hannifin Corp

FITTINGS, Tube (Copper or Brass)

(Unions, tees, elis, etc., for connecting small size brass and copper tubing)

Acme Air Appliance Co 205 Newman St Hackensack N J Alemite—See Stewart-Warner Corp Alemite Al

Allen Mfg. Co., W. D., 566 W. Lake St., Chicago, Ill. Anchor Coupling Co 342 N 4th St Libertyville

Anderson Brass Co 100 S Campbell Ave De-troit 9 Mich "Kantleak" Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.

Waterbury 20, Conn.
Chicago Forging & Mfg. Co., 2000 Southport
Ave., Chicago 14, Ill. "Sealastic."
Circle Z RFD No 2 Promfret Center Conn
Commonwealth Brass Corp 5825 Commonwealth Ave Petroit 8 Mich
Consolidated Brass Co 2019 N Tryon Ave
Charlotte 6 N Y
Coronet Parts Mfg Co 883 Elton St Brooklyn 8 N Y
Dole Valve Co 6201 Oakton St Morton Grove
Ill

Dole Ill

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Brass)
Edelmann & Co E 2332 Logan Blvd Chicago 47 III

cinnati 2 Ohio (Brass)
Edelmann & Co E 2332 Logan Blvd Chicago 47 III
Everhot Products Co 2001 W Carroll Ave Chicago 12 III "Everhot" (Brass; "Everseal" self-flaring)
Everseal—See Everhot Products Co.
Exello Accessories Mfrs., Inc., 81 Madison Ave. Hempstead N. Y. (Brass.)
Flex-O-Tube Div of Flexonics Corp 2525 S
Jim Daly Rd Inkster Mich
Imperial Brass Mfg Co 6300 W Howard St
Chicago 31 III
International Parts Corp., 11th & State Sts.
Chicago 5. III
International Parts Corp., 11th & State Sts.
Chicago 5. III
International Parts Corp., 11th & State Sts.
Chicago 6. III
International Parts Corp. 11th & State Sts.
Chicago 5. III
Chicago 6. III
Chicago 6. III
Chicago 6. III
Chicago 7. III Mg Corp
Exanticak—See Anderson Brass Corp
Lightnin—See R J. Loock & Co
Lincoin Brass Works, 2067 12th St., Detroit
16. Mich
Loock & Co R J 343 N Gay St Baltimore Md
"Lightnin"

Lukenheimer Co., Beekman St. & Waverly
Lexible Shaft Machi

"Lightnin"
Lukenheimer Co., Beekman St. & Waverly
Ave Cincinnati 14 Ohio
Masters Inc Irvin W 1060 N Lake St Burbank
Callf (Brass)
Witeller Bass

Masters inc Irvin W 1999 N Labor St. 2018 Calif (Brass)
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York II, N. Y. "Nimco."
Nimco-See National Ignition Mfg. Co.
Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12
Ohio "Triple-lok" (Brass flare; "Intru-lok" brass flareless)
Planet Metal Products Corp 964 Dean St.
Brooklyn 38 N Y (Brass)
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.
Sealastic—See Chicago Foreing & Mfg. Co.
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 III "Alemite"

Triple-lok—See Parker-Hannifin Corp Velvac, Inc., 3530 W. Pierce St., Milwaukee 15 Wis

Weatherhead Co Ft Wayne Div 128 W Wash-ington Blvd Ft Wayne Ind Z & W Machine Products Inc 30240 Lakeland Blvd Wickliffe Ohio

FITTINGS, Tube (Steel)

ETTINGS, Tube (Steel)

Ermeto—See Imperial Brass Mfg Co
Ferulok—See Parker-Hannifin Corp
Hi-Seal—See Imperial Brass Mfg Co
Imperial Brass Mfg Co
Chicago 31 Ill "Ermeto" "Hi-Seal" "Imperial"
Parker-Hannifin Corp Parker Fittings
Hose Div 17325 Euclid Ave Cleveland 12
Ohio "Ferulok" (Flareless); "Triple-lok"
(Stainless flare)

(Stainless flare)

(Stainless flare) Triple-lok—See Parker-Hannifin Corp Tru-Seal Div Flick-Reed Corp 2040 N Haw-thorne Ave Melrose Park III

LAME CUTTING MACHINES - See Machines, Flame Cutting

(For forged or cast flanges—see Forgings)

Forgings)
Crosby Co 183 Pratt St Buffalo 5 N Y
Hamlin Metal Products Co 2741 Wingate Ave
Akron 19 Ohio
Konigslow Mfg Co Otto 2600 Perkins Ave
Cleveland 14 Ohio

FLAPS, FENDER-See Guards, Fender Splash

FLARES, Highway Lighting

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King Bee Ace" "King Bee Fuel-Tite" (Oil burn-

King Bee-See American Automatic Devices

Co Signal Flare Div Standard Railway Fusee Corp Box 30-C Needham Heights 94 Mass "Standard" (Fusees) Standard—See Signal Flare Div

FLARING TOOLS, TUBE-See Tools, Tube Flaring
FLASH TRIMMING MACHINES - See Machines, Flash Trimming

FLASHERS, Directional Signal (Auto) Advanced Mfg Inc 738 W 17th St Costa Mesa Calif

Calif

Arrow Safety Device Co Mt Holly N J

Auto Lamp Mrg Co 2909 S Indiana Ave Chicago 9 II

Flarestat—See Signal-Stat Corp

K-S—See Kilborn-Sauer Co

Kay-Lab—See Macchi & Co

Kilborn-Sauer Co Post Rd Fairfield Conn

"K-8"

Macchi & Co Post Rd Fairfield Conn

"K-S"

Macchi & Co 819 Valencia St San Francisco
10 Calif "Kay-Lab"
Signal-Stat Corp Signal-Stat Bjdg 523 Kent
Ave Brooklyn 11 N Y "Signal-Stat;"
"Flarestat" (Emergency for disability

Sparton Automotive Div of Sparton Corp Jackson Mich Tung-Sol Electric Inc 95 8th Ave Newark 4 N J

Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass Kay-Lab—See Macchl & Co Macchl & Co 819 Valencia St San Francisco 10 Calif "Kay-Lab" Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohlo.

FLEXIBLE SHAFTING-See Shafting, Flexi-

FLEXIBLE SHAFT MACHINES — See Machines, Flexible Shaft (Portable Electric) FLINT PAPER-See Paper, Abrasive

FLOATS, Cellular Rubber

Rogers Corp Rogers Conn

FLOATS, Cork

Armstrong Cork Co., Industrial Div., Lan-caster, Pa. (Carburetor and gage.) Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Il. (Carburetor.) Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y. Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.

FLOATS, Metal

Superior Seal & Stamp Co., 1401 Vel Ave., Detroit 16, Mich. (Carburetor.) 1401 Vermont

FLOATS, Oil Pump

(To draw clean oil from top of crankcase) Taylor Products Div Tecumseh Products Co 1100 W Beardsley Ave Elkhart Ind "Float-O"



"Standard" AUTOMOTIVE FUSEES

Preferred by fleet operators for maximum protection on the highways after dark.

SIGNAL FLARE DIVISION

Standard Railway Fusee Corp.

Box 30-C, Needham Heights 94, Mass.

Circle 227 on Inquiry Card for more data



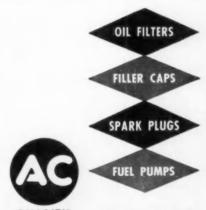
IMPERIAL TUBE FITTINGS

- Finer because they're FORGED Long Length Dryseal Pipe Threads . Tubing Size Marked on Nut
- Hi-Duty Fittings
 Flex Fittings
 Compression Fittings
 Flared Tube Fittings
 Flared Tube Fittings
 Hi Seal Fittings
 Fittings
 Fittings
 Flared Fittings
 Flared Fittings
 Fittings
 Flared Fittings
 Fittings

Also Fuel Filters, Shut-off Valves, Needle Valves, Drain Cocks, Tube Working Tools Ask for Catalog 200

THE IMPERIAL BRASS MFG. COMPANY 6300 W. Howard Street, Chicago 31, III.

Circle 228 on Inquiry Card for more data



QUALITY **PRODUCTS**

ADAPTERS (DRIVE) . AIR CLEANERS . AIR CLEANERS AND SILENCERS (COMBINATION) . AMMETERS . BREATHERS

(CRANKCASE) . DIE CASTINGS (ZINC) . FLEXIBLE SHAFT ASSEMBLIES . FUEL AND VACUUM PUMPS (COMBINATION) . FUEL FILTERS. FUEL STRAINERS . GASOLINE STRAINERS . GAUGES-AIR (PRESSURE). GASOLINE, OIL (PRESSURE). TEMPERATURE (WATER, OIL) PANELS (INSTRUMENT) . SPEEDOMETERS . TACHOMETERS . TERMINALS (IGNITION WIRE) . VALVES (CRANKCASE VENTILATION)

AC THE ELECTRONICS DIVISION OF GENERAL MOTORS . FLINT, MICHIGAN Circle 229 on Inquiry Card for more data

FLOOR COVERINGS, BUS AND TRUCK-See Coverings, Floor (Bus or Truck)

FLOOR PADS, FELT-See Pads, Floor (Felt,

FLOOR PLATES (Steel)-See Plates, Floor

FLOORING, Truck & Trailer

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum) Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn (Aluminum for trailers) Fruehauf Trailer Co 16940 Harper Ave De-troit 32 Mich (Aluminum for refrigerated trailers)

tratiers)
Revere Copper and Brass Inc 230 Park Ave
N Y 17 N Y (Aluminum)
Reynolds Metals Co Third & Grace Sts Richmond 19 Va (Aluminum)

LOW CONTROL VALVES (Temperature and Pressure)—See Valves Flow Control (Temperature and Pressure) FLOW FLOW TEST STANDS-See Stands, Engine

Fuel Flow Test (Automotive)

FLUID, BRAKE BONDING—See Compounds, Brake Bonding

COUPLINGS-See Couplings, Fluid FLUID (Machinery)

FLUID, Hydraulic Brake and Shock Absorber

Allube Corp., 928 Allen Ave., Glendale 1, Calif.

Allube Corp., 928 Allen Ave., Glendale 1, Caiif.

Ameroid—See E. F. Drew & Co.
Barton Products Co 1891 N Winnebago Ave Chicago 47 III
Beli Co., 411 N. Wolcott Ave., Chicago 22, III
"Flare" (Brake)
Blue Ribbon—See International Metal Polish Co.
Blue Star—See Petroleum Chemicals Co
Bounified—See Petroleum Chemicals Co
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind (Brake)
Brakheed—See Universal Chemical Div R M
Hollingshead Corp
Brake—See Petroleum Chemicals Co
Carlife—See Chicago Hydraulic Oil Co.
Braxe—See Petroleum Chemicals Co
Carlife—See Universal Chemical Div R M
Hollingshead Corp
Chicago Hydraulic Oil Co 371 E 116th St Chicago 28 III "Brakrite" & "Safe-Brake" (Brake; "Shockoyl" "Hijoyl" "Lojoyl" shock absorber)
Delco—See Moraine Products Div., General Motors Corp.
Drew & Co E P Automotive Chemicals Div
15 E 26th St New York N Y "Ameroid" (Brake)

(Brake)
Pont de Nemours & Co Finishes Div Spe-

cialties Sales Wilmington 98 Del (Brake) lutch Brand—See Johns-Manville Dutch Brand Div

Elis Automotive Corp., Middletown, Conn. (Brake.) Five Star—See Petroleum Chemicals Co

Elis Automotive Corp., Middletown, Conn. (Brake.)
Five Star—See Petroleum Chemicals Co
Filare—See Bell Co.
Gilpake Automotive Products Div Packer
Auto Parts Inc Roselle N Y (Brake)
Gold Eagle Products Co 1050 W Kinzle St
Chicago 22 Ill
Guaranteed—See Master Co
Higoth—See Chicago Hydraulic Oil Co
Hollingshead Corp R M 340 Cooper St Camden N J "Whiz" (Brake)
Houghton & Co E F 303 W Lehigh Ave
Philadelphia 33 Pa "Houghto-Safe" International Metal Pollsh Co., 1910 Quill
St., Indianapolis, Ind. "Blue Ribbon."
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill "Dutch Brand"
Lisle Corp Brake Div 805 E Main St
Clarinda Iowa
Lockheed—See Wagner Electric Corp.
Lojoyl—See Chicago Hydraulic Oil Co.
Loreman Products Moore & Division Sts
Salisbury Md (Brake)
M-K—See Motor Kool Products Co
Master Co 37 Preston Ct Brooklyn 34 N Y
"Guaranteed" (Brake)
Mobo—See John T. Stanley Co.
Moraine Products Div., General Motors
Corp., 1420 Wisconsin Bivd., Dayton, Ohio.
"Delco." (Brake.)
Motor Kool Products Co 505 Buttles Ave
Columbus 8 Ohio "M-K" (Brake)
Niehoff & Co., C. E., 4925 W, Lawrence Ave.,
Chicago 30, Ill. (Brake.)
Octagon Process Inc 15 Bank St Staten Island 1 N Y
Olin Mathleson Chemical Corp Industrial
Chemical Div Mathleson Bidg Baltimore 2
Md "Puritan"
Park Chemical Co 8074 Military Ave Detroit
4 Mich "Parko"

Parko—See Park Chemical Co. Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)

Permatex Co 300 Broadway Huntington Sta-tion N V

n M x bleum Chemicals Co Tilton Rd Danville "Blue Star" "Bonified" "Braxe" "Five

Star" Bonified" "Braxe" "Five Star"
Porte Mfg Co 2179 Atlantic Ave Brooklyn 8
N Y "Porto"
Porto—See Porte Mfg. Co.
Puritan—See Olin Mathleson Chemical Corp
Industrial Chemical Div
Quaker Supreme Chemical Corp P O Box
1951 Montgomery Ala (Brake)
Radiator Specialty Co 1400 W Independence
Blvd Carlotte 1 N C "Super A" (Brake)
Raybestos Div of Raybestos—Manhattan Inc
75 E Main St Stratford 2 Conn (Brake)
Safe-Brake—See Chicago Hydraulic Oli Co
Shell Oli Co., 50 W, 50th St., New York 20,
N, Y.
Shock Master—See Master Co.

Shock Master-See Master Co Shockow — See Chicago Hydraulic Oli Co. Shockow — See Chicago Hydraulic Oli Co. Sinclair Refining Co 600 Fifth Ave New York N Y (Brake) Speco, Inc., 7308 Associate Ave., Cleveland Sinclair

Speco, Inc.

9, Ohio.
Stanley Co., John T. 642 W. 30th St., New York, N. Y. "Mobo."
Super A.—See Radiator Specialty Co Sure-Rite—See Warehouse Dist Co
Thermoid Co Whitehead Rd Trenton 6 N J (Brake)
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Ucon—See Union Carbide Chemical Co
Union Carbide Chemical Co
Union Carbide Chemical Co
N Y 17 N Y "Ucon" (Brake)

NY 17 NY 'Ucon' (Brake)
United States Aviex Co 1350 Maple St Niles
Mich (Brake)
U S Chemical & Supply Co 400 E 10th Ave
North Kansas City 16 Mo ''Z-4''
Universal Chemical Div R M Hollingshead
Corp 840 Cooper St Camden 2 N J ''Brakheed' ''Carlife' ''Universal''
V-Mfg Co 13165 Sherman Ave North
Hollywood Calif
Wagner Electric Corp. 4400 Plymouth Ave.,
St. Louis 14, Mo. ''Lockheed' '(Brake.)
Warco—See Warwick Laboratories Co.
Warchouse Distributing Co 3810 N 19th St

Warco—See Warwick Laboratories Co.
Warehouse Distributing Co 3810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
Warwick Laboratories Co., 334 Clevelanc
St. Brooklyn S. N. Y. "Warco."
White & Basley Co 100 Foster St Worcester
8 Mass (Shock absorber)
Whiz—See R. M. Hollingshead Corp.
Wilco Co 4425 Bandini Blvd Los Angeles 22
Calif (Brake)
Z-4—See U S. Chemical & Supply Co.

FLUID LINE COUPLINGS—See Couplings,

FLUID POWER CONTROL VALVES - See Valves Fluid Power Control

FLYWHEEL GEAR HEATERS-See Heaters, Flywheel Gear

FORGES, Rivet (Oil Burning)

Hauck Mfg. Co., 124 Tenth St., Brooklyn, N. Y. N. 1. Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn. Mahr Mfg Co 7444 Girard Ave S Minneapolis

FORGING FURNACES—See Furnaces, Forg-ing and Welding

FORGING PRESSES-See Presses, Forging FORGING MACHINES-See Machines, Forg-

Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio

Wyman-Gordon Co 105 Madison St Worces-ter 1 Mass

Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio Wyman-Gordon Co 105 Madison St Worces-

FORGINGS, High Density Alloys

Wyman-Gordon Co 105 Madison St Worces-ter 1 Mass

Transue & Williams Steel Forging Corp 562

Ely St Alliance Ohio

Wyman-Gordon Co 105 Madison St Worcester 1 Mass

FURNACE REGULATORS ELECTRIC — See
Regulators Furnace (Electric)

FORGINGS, Ring

Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio

FORGINGS. Steel

Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio (Die) Shuler Axle Co 2901 S Second St Louisville

Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio (Welded ring) Transue & Williams Steel Forging Corp 562 Transue & Williams Steel Forging Corp 602 Ely St Alliance Ohio Universal-Cyclo Steel Corp Station St Bridgeport Pa (Tool and stainless) Wyman-Gordon Co 105 Madison St Worces-ter 1 Mass

FORGINGS, Titanium

Wyman-Gordon Co 105 Madison St Worces-ter 1 Mass FORM GRINDING MACHINES-See Machines,

Grinding (Form)
FORMING MACHINES, COLD ROLL—See
Machines, Forming (Cold Roll)

FOUNDATIONS, Body Upholstery

Arvey Corp., 6401 E. Nevada Ave., Detroit 34, Mich "Ebonite." Ebonite—See Arvey Corp. Ruberoid Co 307 N Michigan Ave Chicago 1

FRAME PADDING - See Lining, Body or

FRAMES, Auto (Pressed Steel)

Budd Co 2450 Hunting Park Ave Philadelphia

Corp 4100 Bennett Rd Toledo 1 Ohio

Dana Corp 4100 Bennett Rd Toledo 1 Ohlo
"Spleer"
Midland-Ross Corp Cleveland Div Madison
Ave & W 106th St Cleveland Ohlo (Buick
Studebaker Willys and GMC trucks)
Midland-Ross Corp Detroit Div 6660 Mt
Elliott Ave Detroit 11 Mich
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich
Parish Pressed Steel Div of Dana Corp
Robeson & Welser Sts Reading Pa
Smith Corp A O 27th & Hopkins Sts Milwaukee 1 Wis
Spicer—See Dana Corp

FRAMES, Radio Speaker

Cleveland Steel Products Corp 16025 Brook-park Rd Cleveland 35 Ohio

FRAMES, Seat

Ainsworth-Precision Castings Co Div of Harsco Corp 3200 Guardian Bidg Detroit 26 Mich (Tubular)
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Bucket and folding.)
American Metal Products Co., 5959 Linsdale
Ave.. Detroit 4, Mich.
Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich
Martin Co., 1150 W. Third St., Cleveland 13, Ohio. (Tubular bus.)

Martin Co., 1150 W. Third St., Cleveland 13, Ohio, (Tubular bus.) Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit 39

Randall Co 5000 Spring Grove Ave Cincinnati

FRAMES, Window, Metal (Auto)

Adams & Westlake Co 1019 N Michigan St Elkhart Ind "Adlake" (Anto and bus) Bath Co Cyril 32280 Aurora Rd Solon Ohio RONT END SUSPENSION PARTS - See Parts, Front End Suspension

FUEL FILTERS—See Filters, Gasoline (Auto); also Strainers, Gasoline FUEL GAGE TESTERS-See Testers, Fuel

Gage FUEL INJECTORS—See Injection Systems, Diesel & Gasoline Engine

FUEL LINES, FLEXIBLE-See Tubing, Oil and Gasoline Line

FUEL PRESSURE REGULATORS-See Regulators, Fuel Pressure

FUEL PUMP PARTS-See Parts, Fuel Pump FUEL PUMPS—See Pumps, Fuel (Auto)
FUEL STRAINERS—See Strainers, Gasoline

FURNACES, Aluminum Melting

American Electric Furnace Inc 300 Freeport St Fields Corner P O Boston 22 Mass American Gas Furnace Co., Larayette, Spring & Elizabeth Sts., Elizabeth, N. J. Bellevue Industrial Furnace Co 2620 Cranc St Bellevue 14 Mich Buzzer—See Charles A Hones Inc Ectipse Fuel Engineering Co 1111 Buchanan St Rockford III

Eclipse Fuel Engineering Co IIII Buchanan St Rockford III Fisher Furnace Div. of Lindberg Engineering Co., 2476 W. Hubbard St., Chicago, III. "Lindberg-Fisher."

Hones Inc Charles A 139 S Grand Ave Baldwin N Y "Buzzer"

Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn.

Kindt-Collins Co., 12651 Elmwood Ave., Cleveland II, Ohlo, "Master."

Lindberg-Fisher—See Fisher Furnace Div. of Lindberg Engrg. Co.

Loftus Engrg Corp I Gateway Center Pittsburgh 22 Pa.

Master—See Kindt-Collins Co.

Rockwell Co W S 200 Eliot St Fairfield Conn Sunbeam Corp Industrial Furnace Div 432 Ogden Ave Chicago 23 III "Sunbeam Stewart"

Surface Combustion Corp 2375 Dorr St To-ledo 1 Ohio

FURNACES, ANNEALING — See Furnaces, Heat Treating

FURNACES, Babbitt Melting

American Electric Furnace Inc 300 Freeport St Field's Corner P O Boston 22 Mass American Gas Furnace Co., Lafayette, Spring & Elizabeth Sts., Elizabeth, N. J. Bellevue Industrial Furnace Co 2620 Crane St

Bellevue 14 Mich

Buzzer—See Charles A. Hones, Inc. Eclipse Fuel Engineering Co 1111 Buchanan St Rockford III

Hones Inc Charles A 139 S Grand Ave Bald-win N Y "Buzzer"

win N Y "Buzzer"
Johnson Gas Appliance Co., 520 E Ave., W.,
Cedar Rapids, Iowa.
Johnston Mfg. Co., 2825 E. Hennepin Ave.,
Minneapolis, Minn.
Rockwell Co., W. S., 200 Ellot St., Fairfield,

Conn

Con.
Storm-Vulcan Inc 2225 Burbank St Dallas
19 Tex
Surface Combustion Corp., 2375 Dorr St.,
Toledo I, Ohio.

FURNACES, Billet Heating

Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J "Ajax-Northrup" Bellevue Industrial Furnace Co 2620 Crane St

Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich EF—Electric Furnace Co Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno" Elfurno—See Electric Furnace Co. Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn. Lindberg Engrg Co 2476 W Hubbard St Chi-cago 12 Ill Loftus Engrg Corp 1 Gateway Center Pitts-burgh 23 Pa Rockwell Co., W. S., 200 Eliot St., Fairfield, Conn

onn Salem-Brosius Inc Arch St Carnegie Pa Sunbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 Ill "Sunbeam Stew-art"

FURNACES, BLUING-See Furnaces, Rust-

FURNACES, Brazing

Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno" (Brass aluminum copper and silver)
Lindberg Engrg Co 2476 W Hubbard St Chi-

hio Crankshaft Co 3800 I Cleveland 5 Ohio (Induction)

FURNACES, Bulldozer

Johnston Mfg Co 2825 E Hennepin Ave Min-neapolis Minn

FURNACES, CASE HARDENING—See Furnaces, Heat Treating

FURNACES, Conveyor

American Gas Furnace Co., Lafayette,
Spring & Elizabeth Sts., Elizabeth, N. J.
Bellevue Industrial Furnace Co 2820 Crane St
Bellevue 14 Mich
Drever Co Red Llon Rd & Philmont Ave
Bethayres Pa (Belt)
EF—See Electric Furnace Co.
Electric Furnace Co 539 Wilson Ave Salem
Ohio "EF" "Elfurno"
Elfurno—See Electric Furnace Co.

Foundry Equipment Co., 1831 Columbus Rd., Cieveland 13, Ohio. "McCann."
G-E.—See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Harper Electric Furnace Corp 116 Pearl St Buffalo 2 N Y (Mesh belt) Holcroft & Co 6545 Epworth Blvd Detroit 10 Mich

Mich
Johnston Mfg. Co., 2825 E. Hennepin Ave.,
Minneapolis, Minn.
enworthy, Inc., Charles F., 195 Pledmont
St., Waterbury, Conn.
indberg Engrg Co 2476 W Hubbard St Chi-

St. Waterbury, Conn.

St. Waterbury, Conn.

Lindberg Engrg Co 2476 W Hubbard St Chicago 12 III

Link-Belt Co Prudential Plaza Chicago 1 III

Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa

McCann—See Foundry Equipment Co.

Rockwell Co. W. S., 200 Ellot St., Fairfield,

Conn

Salem-Brosius Inc Arch St Carnegle Pa

Sunbeam Corp Industrial Furnace Div 4433

Ogden Ave Chicago 23 III "Sunbeam Stewart"

FURNACES. Electric

Ajax Electric Co 944 Frankford Ave Phila-delphia 23 Pa "Ajax-Hultgren" (Sal

Ajax Electrothermic Corp 1490 Lower F Ed Trenton 5 N J "Ajax-Northrup"

Rd Trenton 5 N J "Ajax-Notation duction)
American Electric Furnace Inc 300 Freeport St Field's Corner P O Boston 22 Mass Bellevue Industrial Furnace Co 2971 Bellevue Ave Detroit 7 Mich Certain Curtain—See C. I. Haves, Inc. Cooley Electric Mfg Co 38 S Shelby St Indianapolis 7 Ind Detroit Electric Furnace Div., Kuhlman Electric Co., 1000 26th St., Bay City, Mich. (Matal melting.)

Detroit Electric Furnace Div., Kuniman Flectric Co., 1000 26th St., Bay City, Mich. (Metal meiting.)
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa
EF—See Electric Furnace Co.
Electric Furnace Co. 539 Wilson Ave Salem Ohio "EF" "Effurno"
Elfurno—See Electric Furnace Co.
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Greene Electric Furnace Co. 2702 Stxth Ave
S Seattle 4 Wash (Melting, for steel and Iron)

S Sei

iron)
Grieve-Hendry Co 1401 W Carroll Ave Chicago 7 Ill
Harper Electric Furnace Corp 110 Pearl St
Buffalo 2 N Y
Hayes Inc C I 800 Wellington Ave Cranston
10 R I "Certain Curtain"
Holcroft & Co 6545 Epworth Blvd Detroit
10 Mich

10 Mich Holden Co A F 14341 Schaefer Highway Detroit 27 Mich Huppert Co, K. H., 6820 Cottage Grove Ave., Chicago 37, III. (Heat treating.) Kenworthy, Inc., Charles F., 195 Pledmont St. Waterbury Conn. Lindberg Engrg Co 2476 W Hubbard St Chicago 12 III Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa. Rockwell Co., W. S., 200 Ellot St., Fairfield. Conn

Conn
Salem-Brosius Inc Arch St Carnegie Pa
Sentry Co., 62 Main St., Foxbora, Masa
Standard Fuel Engineering Co., 667 Post
Ave., S., Detroit, Mich.
Sunbeam Corp Industrial Furnace Div 4433
Ogden Ave Chicago 23 III "Sunbeam
Stewart"

P. O. Box 1888
Ajax Electric Co. 944 Frankfor

Stewart' Swindell-Dressler Corp., P. O. Box 1888, Pitrsburgh 30 Pa. Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa. Whiting Corp 157th & Lathrop Sts Harvey

3800 Harvard Ave FURNACES, Forging and Welding

Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J (Induction) American Electric Furnace inc 300 Freeport St Field's Corner P O Boston 22 Mass (Forgins) Bellevue Industrial Furnace Co 2620 Crane St

Bellevue 14 Mich

Bellevue 14 Mich
Circ-Air—See Industrial Heating Equip Co
Continental Industrial Engineers, Inc., 176
W. Adams St., Chicago 3. III. (Forging.)
EF—See Electric Furnace Co.
Eclipse Fuel Engineering Co 1111 Buchanan
St. Rockford III
Electric Furnace Co 539 Wilson Ave Salem
Ohio "EF" "Elfurno"
Elfurno-See Electric Furnace Co.
Gas Appliance Service Co 1940 W Balmoral
Ave Chicago 40 III (Forging)
Gas Machinery Co 16100 Waterloo Rd Cleveland 10 Ohio "Gasmaco"

Gasmaco-See Gas Machinery Co Holcroft & Co., 6545 Epworth Blvd., Detroit

10. Mich.

10, Mich.
Induction Heating Corp., 181 Wythe Ave.,
Brooklyn 11, N. Y.
Industrial Heating Equip Co 2570 Fremont
Pl Detroit 7 Mich "Circ-Air" (Forging)
Johnston Mig. Co., 2828 E. Hennepin Ave.,
Minneapolis, Minn.

Minneapoils, Minn.
Kenworthy Inc., Charles F., 195 Piedmont St., Waterbury, Conn.
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa (Forging)
Magnethermic Corp 3990 Simon Rd Youngstown 7 Ohio
Mahr Mfg Co 7444 Girard Ave S Minneapolis 23 Minn
Rockwell Co., W. S., 200 Eliot St., Fairfield, Conn.

Salem-Brosius Inc Arch St Carnegie Pa

Salem-Brosus file Arch St. Cambridge (Forging)
Standard Fuel Engineering Co., 667 Post Ave., S., Detroit, Mich.
Sunbeam Corp Industrial Furnace Div 4433
Ogden Ave Chicago 23 Ill "Sunbeam Stewart"
Stewart"

Surface Combustion Corp., 2375 Dorr St., Toledo I, Ohio,

FURNACES, Gas

OKNACES, Gas
American Electric Furnace Inc 300 Freeport
St Field's Corner P O Boston 22 Mass
American Gas Furnace Co. Latayette. Spring
& Elizabeth Sts., Elizabeth, N. J.
Bellevue Industrial Furnace Co 2620 Crane St
Bellevue 14 Mich

Buzzer—See Charles A Hones Inc Drever Co Red Lion Rd & Philmont Ave

Bethayres Pa Ef —See Electric Furnace Cc Eclipse Fuel Engineering Co 1111 Buchanan St Rockford III Co 539 Wilson Ave Salem

St ROCKIOTA III
Electric Furnace Co. 539 Wilson Ave Salem
Ohio "EF" "Elfurno"
Elturno—See Electric Furnace Co.
Gas Appliance Service Inc 1940 W Balmoral
Ave Chicago 40 III "Roto-Flame"
Grieve-Hendry Co 1401 W Carroll Ave Chicago 7 III

Cago 7 III Hi-Life—See Lindberg Engrg Co Holcroft & Co., 6545 Epworth Blvd., Detroit 10, Mich.

Holden Co A F 11300 Schaefer Highway De-troit 27 Mich

Hones Inc Charles A 139 S Grand Ave Bald-win N Y "Buzzer" win N 1 Buzzer hinston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn.

Minneapolis, Minn.
Kenworthy, Inc., Charles F., 195 Piedmont
St., Waterbury, Conn.
Lindberg Engrg Co 2476 W Hubbard St Chicago 12 Ill "Hi-Life"
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co., W. S., 200 Eliot St., Fairfield

Roto-Flame-See Gas Appliance Service Inc

Salem-Brosius Inc Arch St Carnegie Pa Selas Corp of America Dresher Pa Sunbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 Ill "Sunbeam Sunbeam Stewart"

Stewart"
Surface Combustion Corp., 2375 Dorr St.,
Toledo 1, Ohio.
Swindell-Dressler Corp., P. O. Box 1888,
Pittsburgh 30, Pa.
Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

Ajax Electric Co 944 Frankford Ave Phila-delphia 23 Pa "Ajax-Hultgren" Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J "Ajax-Northrup" (In-

aduction)
American Electric Furnace Inc 300 Freeport
St Field's Corner P O Boston 22 Mass
American Gas Furnace Co., Lafayette, Spring
& Elizabeth Sts., Elizabeth, N. J.
Ammogas—See Westinghouse Electric Corp
Bellevue Industrial Furnace Co 2620 Crane St

Bellevue 14 Mich urdett Mfg Co 4920 S Monitor St Chicago 38 Ill

Buzzer—See Charles A. Hones, Inc. Certain Curtain—See C. I. Hayes, Inc.



HEAT TREATING FURNACES entinuous and Batch Types ANY SIZE OR TYPE THE ELECTRIC FURNACE CO. SALEM, OHIO

Circle 230 on Inquiry Card for more data

FURNACES, Heat Treating-continued

Circ-Air—See Industrial Heating Equip Co Continental industrial Engineers, Inc., 176 W. Adams St., Chicago 3, Ill. Cooley Electric Mfg Corp 38 S Shelby St In-dianapolis 7 Ind

dianapons 7 ind yclone—See Lindberg Engineering Co. ow Furnace Co 12045 Woodbine Ave De-troit 29 Mich brever Co Red Lion Rd & Philmont Ave

bethayres Pa
Bethayres Pa
Bethayres Pa
Brinax—See Charles F. Kenworthy Inc
EF—See Electric Furnace Co
Eclipse Fuel Engineering Co 1111 Buchanan
Cockford III

Eclipse Fuel Engineering Co 1111 Buchanan St Rockford III
Electric Furfiace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Elfurno-See Electric Furnace Co Foundry Equipment Co 1831 Columbus Rd Cleveland 13 Ohio "McCann"
G-E—See General Electric Co Gas A; vilance Service Inc 1211 Webster Ave Chicago 14 III "Gear-Treater" (Gas) Gas Machinery Co (Gas A; vilance Service Inc 1211 Webster Ave Chicago 14 III "Gear-Treater" (Gas) Gas Machinery Co Gear Treater—See Gas Appliance Service Inc General Electric Co Apparatus Sales Dlv 1 River Rd Schenectady 5 N Y "G-E" Gradiation—See Selas Corp of America Grieve-Hendry Co 1101 W Carroll Ave Chicago 7 III (Gas or electric)
Harper Electric Turnace Corp 110 Pearl St Buffalo 2 N Y
Hayes Inc C 1 800 Wellington Ave Cranston 10 R I "Certain Curtain"
Hevi Duty Electric Co 2040 W Wisconsin Ave Milwaukce 1 Wis "Hevi Duty" "Multiple Unit" (Electric and gas)
Hoicroft & Co., 6545 Epworth Blvd., Detroit 10, Mich.
Holden Co A F 14341 Schaefer Highway Detroit 27 Mich Homo—See Leeds & Northrup Co.

troit 27 Mich

Homo—See Leeds & Northrup Co.

Homocarb—See Leeds & Northrup Co.

Hones Inc Charles A 139 S Grand Ave Baldwin N Y "Buzzer"

Hump—See Leeds & Northrup Co.

Huppert Co., K. H. 6830 Cottage Grove

Ave., Chicago 37, Ill. (Electric.)

Hydryzing—See Lindberg Engineering Co.

Induct-O-Ring—See Lindberg Engineering Co.

Hydryzing—See Lindberg Engineering Co.
Induct-O-Ring—See Lindberg Engrg Co
Induction Heating Corp., 181 Wythe Ave..
Brooklyn 11, N. Y.
Industrial Heating Equip Co 3570 Fremont
Pl Detroit 7 Mich "Circ-Air"
Ipsen Industries inc 715 S Main St Rockford

FURNACES, Rustproofing

Drinox. Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa. "Hump," "Homo." "Homocarb," "Vapocarb." (Electric and

gas)
Lindberg Engineering Co 2476 W Hubbard
St Chicago 12 Ill "Cyclone" "Hydryzing"
"Induct-O-Ring" "Super Cyclone"

Loftus Engrg Corp 1 Gateway Center Pitts-burgh 22 Pa McCann-See Foundry Equipment Co. Magnethermic Corp 3990 Simon Rd Youngs-

Magnethermic Corp 3990 Simon Rd Youngstown 7 Ohio
Mahr Mfg Co 7444 Girard Ave S Minneapolis
23 Minn (Gas oil and electric)
Monogas—See Westinghouse Electric Corp
Multiple Unit—See Hevi Duty Electric Co.
Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif
Rockwell Co., W. S., 200 Eliot St., Fairfield.

Conn Salem-Brosius Inc Arch St Carnegle Pa Selas Corp of America Dresher Pa "Gradia-tion"

tion"
Sentry Co., 6° Main St., Foxboro, Mass.
Steiner-Ives Co Springfield Rd Union N J
Sunbeam Corp Industrial Furnace Div 4433
Ogden Ave Chicago 23 III "Sunbeam
Stewart"

Super-Cyclone-See Lindberg Engineering

Surface Combustion Corp., 2375 Dorr St., Toledo 1, Ohio. Swindell-Dressler Corp., P. O. Box 1888 Pittsburgh 30, Pa. Vanocarb—See Leeds & Northrup Co.

Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa "Ammogas" 4 ter Fitte

FURNACES. Induction Heating

(See also Machines, Induction Heating jax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J "Ajax-Northrup" Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y "Ther-monic" Loftus Engrg Corp 1 Gateway Center Pitts-burgh 22 Pa. Magnethermic Corp 3990 Simon Rd Youngs-Wythe Ave

town 7 Ohio Ohio Crankshaft Co Tocco Div 4620 E 71st St Cleveland 5 Ohio "Tocco"
Ther-monic—See Induction Heating Corp
Tocco—See Ohio Crankshaft Co

FURNACES, Oil

American Electric Furnace Inc 300 Freeport St Field's Corner P O Boston 22 Mass Bellevue Industrial Furnace Co 2620 Crane St Bellevue Industria Bellevue 14 Mich Flectric F

Bellevue 14 Mich EF-See Electric Furnace Co. Electric Furnace Co 539 Wilson Ave Salem Ohlo "EF" "Elfurno" Elfurno-See Electric Furnace Co. Holcroft & Co., 6545 Epworth Blvd., Detroit

10. Mich.

Mich.
 Holden Co A F 14341 Schaefer Highway Detroit 27 Mich
 Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn.
 Kenworthy, Inc., Charles F., 195 Piedmont St., Waterbury, Conn.
 Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
 Rockwell Co., W. S., 200 Ellot St., Fairfield. Conn.

Loftus Engrg Corp 1 Gateway Center Pitts-burgh 22 Pa Rockwell Co., W. S., 200 Ellot St., Fairfield, Conn. Salem-Brosius Inc Arch St Carnegie Pa Sunbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 Ill "Sunbeam Stewart"

windell-Dressler Corp., P. O. Box 1888. Pittsburgh 30, Pa.

FURNACES, Rivet Heating

Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn. Kenworthy, Inc., Charles F., 195 Piedmont St., Waterbury, Conn. (Portable electric, Duralumin.) Rockwell Co., W. S., 200 Eliot St., Fairfield, Conn

Conn Conn. unbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 III "Sunbeam Stewart" urface Combustion Corp., 2375 Dorr St., Toledo 1, Ohio.

Ipsen Industries Ine 715 S Main St Rockford III (Automatic)
Johnson Gas Appilance Co., 520 E Ave., W.. Cedar Rapids, Iowa:
Johnston Mfg. Co., 2255 E. Hennepin Ave., Minneapolis, Minn
Kenworthy, Inc., Charles F., 195 Piedmont St., Waterbury, Conn. "Kenworthy,"

Thelnox "

Thelnox "

Kenworthy,"

Thelnox "

T (Bluing, black coating, etc.) Electric Furnace Co 539 Wilson Ave Salem

Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J (Induction) Drever Co Red Lion Rd & Philmont Ave Bethayres Pa Electric Furnace Co 539 Wilson Ave Salem Ohio Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y Lindberg Engrg Co 2476 W Hubbard St Chi-cago 12 III

FURNACES, Soldering

Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J "Ajax-Northrup" (In-

Rd Trenton 5 N J "Ajax-Northrup" (induction)
Bellevue Industrial Furnace Co 2620 Crane St
Bellevue 14 Mich
Buzzer-See Charles A Hones Inc
EF-See Electric Furnace Co
Eclipse Fuel Engineering Co 1111 Buchanan
Rockford III

Rockford III

Electric Furnace Co 539 Wilson Ave Salem
Ohio "EF" "Elfurno"

Elfurno—See Electric Furnace Co.
G.E.—See General Electric Co
General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Harper Electric Furnace Corp 110 Pearl St
Buffalo 2 N Y
Hones Inc Charles A 139 S Grand Ave Baldwin N Y "Buzzer"
Hones Inc Charles Corp 181 Wythe Ave
Brooklyn 11 N Y
Johnson Gas Appliance Co., 520 E Ave. W.

Brooklyn 11 N Y
Johnson Gas Appliance Co., 520 E Ave., W.,
Cedar Rapids, Mich.
Littli,stown Hardware & Foundry Charles
St Littlestown Pa
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Magnethermic Corp 2990 Simon Rd Youngstown 7 Oblo.

Ourgn zz Pa Magnethermic Corp 3990 Simon Rd Youngs-town 7 Ohlo Selas Corp of America Dresher Pa Sentry Co., 62 Main St., Foxboro, Mass. Sta-Warm Electric Co., 252 N. Chestnut St., Ravenna, Ohlo. (Electric.)

Sunbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 Ili "Sunbeam Stewart"

Surface Combustion Corp., 2375 Dorr St., Toledo I, Ohio. Westinghouse Electric Corp 3 Gateway Cen-

ter Pittsburgh 30 Pa Mfg Co 124 Grant St Cambridge Springs

FURNACES, Spring Fitting

Johnston Mfg. Co., 2825 E. Hennepin Ave., Minneapolis, Minn. FURNACES, TEMPERING — See Furnaces, Heat Treating

FURNACES, Vacuum

Lectromelt Furnace Div McGraw-Edison Co 32nd St & Allegheny River Pittsburgh 30

Stokes Corp F J 5500 Tabor Rd Philadel-phia 20 Pa Sunbeam Corp Industrial Furnace Div 4433 Ogden Ave Chicago 23 III "Sunbeam Stew-

Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa

FUSE CLIPS-See Clips, Fuse (Industrial) FUSE PANELS—See Panels, Instrument (With Instruments Assembled)
FUSEES—See Flares, Highway Lighting

FUSES. Electric

Auto Products Mfg Co 314 N Ewing St St Louis 3 Mo "Killark".

Buss—See Bussmann Mfg Div Bussmann Mfg Div Bussmann Mfg Div McGraw-Edison Co 2536 W, University St St Louis 7 Mo "Buss" "Buss Fustats" "Fusetrons"

Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y Fusetrons—See Bussmann Mfg Div Hi-Lag—See Ware Fuse Corp Killark—See Auto Products Mfg Co Littelfuse Inc 1865 Miner St Des Plaines III Monarch Electric Corp 118 E 1st St Jamestown N Y One-Time—See Ware Fuse Corp

town N Y
One-Time—See Ware Fuse Corp
Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn 32 N Y
Remco—See Reynolds Mfg. Co.
Reynolds Mfg Co. 1419 Alamo National Bidg
San Antonio 5 Tex "Remco"
Royal Electric Corn 95 Grand Ave Pawtucket
R I
Sightmaster Corn 95 Grand Ave Pawtucket Sightmaster Corp 111 Cedar St New Rochelle

N Y Trico Fuse Mfg Co 2948 N Fifth St Milwaukee 12 Wls W-B-See Ware Fuse Corp Ware Fuse Corp 4406 W Lake St Chicago Ill "Hi-Lag" "One-Time" "W-B"

GAGE BLOCKS—See Blocks, Gage GAGES, AIR PRESSURE—See Gages, Cylin-der Compression; also Gages, Steam and Air GAGES, AXLE ALIGNING—See Gages, Wheel and Axle Aligning

GAGES, Center

Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. Lufkin Rule Co., Hess Ave., Saginaw, Mich. Millers Falls Co., Greenfield, Mass. Starrett Co., L. S., 1 Crescent St., Athol Mass. nion Tool Co., 48 E. River St., Orange,

Acme Air Appliance Co 205 Newman St Hackensack N J Amseco Inc 145 S Monterey Ave Villa Park III Arso Mfg & Sales Corp 451 Tenth Ave N Y 18 N Y

18 N Y Barmotive Products Inc 440 Peralta Ave San Leandro Calif "Nelson" Big Four Industries Inc 5938 Carthage Court Cincinnati Ohio Diamond-U Products 8459 Dearborn Ave South Gate Calif. SSS 8934 Ave Onkland 3

Diamond-U Products 8459 Dearborn Ave South Gate Calif
Druge Bros Mfg Co 888 92nd Ave Oakland 3
Calif "Tru-Flate" (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif
Eco—See John Wood Co Bennett Pump Div
Nelson—See Barmotive Products Inc
Schrader's Son, Div of Scovill Mfg Co A
470 Vanderbilt Ave Brooklyn 38 N Y
Syracuse Gauge Co P O Box 51 Manlius N Y
Tru-Flate—See Druge Bros Mfg Co.
Wood Co John Bennett Pump Div Broadway
& Wood Sts Muskegon Mich "Eco"

GAGES, Cylinder

(See also Micrometers)

Ames Co., B. C., 12 Ames St., Waltham 54 Mass. Centromatic Chicago Dia

Mass.
Centromatic—See McQuay-Norris Mfg. Co.
Chicago Dial Indicator Co 180 N Wacker
Drive Chicago 6 Ill "Geneva."
Geneva—See Chicago Dial Indicator Co
McQuay-Norris Mfg. Co., 2320 Marconi St.,
St. Louis. Mo "Centromatic."
Sheffield Corp 721 Springfield St Dayton 1
Obio.

Standard Gage Co Poughkeepsie N Y Starrett Co., L. S., I Crescent St., Athol,

Mass Swedish Gage Co of America 10641 Haggerty GAGES, Dial Ave Dearborn 1 Mich

GAGES, Cylinder Compression

Acme Air Appliance Co 205 Newman St Hackensack N J Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazov i F, Micn. Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. Auto-Test Inc 600 S Michigan Ave Chicago 5 Il "Auto Test Compress-Ald" Bacharach Industrial Instrument Co 200 N Braddock Ave Pittsburgh 8 Pa (Diesel en-gine)

gine)
Compressometer—See Electro Products Co
Cornwell Quality Tools Co Mogadore Ohio
Electric Auto-Lite Co Toledo I Ohio
Electro Products Co 445 E 189 St N Y 58 N Y

Electro Products Co 445 E 189 St N Y 55 N Y
"Compressometer"
Fisher Products Corp A R 21-21 44th Drive
Long Island City 1 N Y "MoTest" (Recording)
G M Co Mfg Inc 13-98 43rd Ave Long Island
City N Y
Griswold Co F T Lancaster Pike Wayne Pa
"Motorstat" (Leak tester)
Hanson Co Harvey E Lake Blyd & Commercial St Paw Paw Mich
Hastings Mfg Co N Hanover St Hastings
Mich

Mich Kennedy Service Tools Co 788 Evans Ave Akron 5 Ohlo King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohlo Mack Products Co 15 Putnam St Winthrop

Mass
Miller Mfg Co 17640 Grand River Ave Detroit 27 Mich
MoTest—See Fisher Products Corp
Motorstat—See F. T. Griswold Mfg. Co.
Nasa Tool Mfg Corp 3427 Locust Corner Rd
Amella O
National Machine & Tool Co., 4077 Page
Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave.,
Chicago 30, Ill.
Rimac—See Rinck-McIlwaine, Inc.
Rinck-McIlwaine, Inc., 16 Hudson St., New
York 13, N. Y. "Rimac."
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Snap-On Tools Corp 8046 28th Ave Kenosha
Wis

Wis
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Weidenhoff Corp Algona Iowa

GAGES, Cylindrical

Brown & Sharpe Mfg. Co., 235 Promenade St. Providence, R. I. Do All Co. 254 N Laurel Ave Des Plaines III Dow Mechanical Corn Thompsonville Conn HW—See Hanson-Whitney Co. 169 Bartholomew Ave Hartford 2 Conn "HW".

Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn. Pratt & W Hartford rd 1 Conn Gage Co 2228 Fenkell Ave Detroit Republi 38 Mich Standard Gage Co Poughkeensie N V Standard Thread Gage Co 26538 W Seven Mile Rd Detroit 19 Mich

GAGES. Depth

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Bristol Co Waterbury 20 Conn
Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I
Central Tool Co 456 Wellington Ave Cranston 10 R I
Chicago Dial Indicator Co 180 N Wacker
Drive Chicago 6 Ill "Geneva"
Davis Gare & Engrg Co A G 21435 Dequindre Rd Hazel Park Mich
Do All Co 254 N Laurel Ave Des Plaines Ill
Dow Mechanical Corp Thompsonville Conn
Federal Products Corp., 1144 Eddy St.,
Providence 1, R. I.

Geneva—See Chicago Dial Indicator Co Hanio Gage Co 18415 Weaver Ave Detroit Hanlo Ga

28 Mich Hjorth Lathe & Tool Co 12 Beacon St Wo-burn Mass Keystone Reamer & Tool Co., Millersburg.

Pa Lufkin Rule Co Hess Ave Saginaw Mich Millers Falls Co Greenfield Mass Sheffield Corp 721 Springfield St Dayton 1

Ohio Standard Gage Co Poughkeepsie N Y Starrett Co L S 1 Crescent St Athol Mass Union Tool Co 48 E River St Orange Mass

Ames Co., B. C., 12 Ames St., Waltham 54. Gages Inc Hyde Park N Y (Snap and

Boice Gages Inc Hyde Park N Y (Snap and bore)
Bristol Co Waterbury 20 Conn
Brown & Sharpe Mig. Co., 235 Promenade
St., Providence, R. I.
Dow Mechanical Corp Thompsonville Conn
Federal Products Corp., 1144 Eddy St.,
Providence, R. I.
Hanlo Gage Co 18415 Weaver Ave Detroit
28 Mich
Lincoln Park Industries Inc 1719 Ferris Ave
Lincoln Park 25 Mich (Snap)
Nilco—See Nilsson Gage Products Inc
Nilson Gage Products Inc Hyde Park N Y
"Nilco" "Nico" Rimat Gage Co 21 W Dayton St Pasadena 2 Calif (Bore) Sheffield Corp 721 Springfield St Dayton 1

Standard Gage Co Poughkeepsie N Y Starrett Co., L. S., 1 Crescent St., Athol. Mass.

GAGES, Drill and Wire

Brown & Sharpe Mfg. Co., 235 Promenade GAGES, Internal Diameter St., Providence R I Davis Gage & Engr Co A G Starret Co 1-165 Crescent St Athol Mass

GAGES, Engine Vacuum

Allen Electric & Equipment Co 2101 N
Pitcher St Kalamazoo 13F, Mich
Arsco Mfg & Sales Corp 451 Tenth Ave New
York 18 N Y
Electric Auto-Lite Co Toledo 1 Ohio
Electro Products Co 445 E 189th St New
York 58 N Y "Motor Peaker"
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Hastings Mfg Co N Hanover St Hastings
Mich

Mich
Kennedy Service Tools Co 788 Evans Ave
Akron 5 Ohio
King Electric Equipment Co 5123 Inman Ave
Cleveland 5 Ohio
Motor Peaker—See Electro Products Co.

Cleveland 5 Ohio
Motor Peaker—See Electro Products Co.
Nasa Tool Mfg Corp 3427 Locust Corner Rd
Amelia Ohio
National Machine & Tool Co., 4077 Page
Ave. Jackson. Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave.
Chicago 30 II
Petroleum Solvents Corp 331 Madison Ave
N Y 17 N Y "Siloo"
Rimac—See Rinck-McIlwaine. Inc.
Rinck-McIlwaine, Inc., 16 Hudson St., New
York 13, N Y "Rimac"
Rochester Mfg. Co., 100 Rockwood St.,
Rochester 10 N Y
Schauer Mfg Corp 4500 Alpine Ave Ross-

Schauer Mfg Corp 4506 Alpine Ave Ross-moyne Ohio Silon-See Petroleum Solvents Corp.

Snap-On Tools Corp., 2046 28th Ave., Keno-sha, Wie sna. Wis Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 III Sun Electric Corp., 6323 Avondale Ave., Chi-cago 31, III.

Syracuse Gauge Co P O Box 51 Manlius N Y

Nyracuse Gauge Co P O Box 51 Manilus N Y United States Gauge Div. of American Ma-chine & Metals, Inc., Clymer Ave., Sel-lersville, Pa. Wallace & Tiernan Inc 25 Main St Belleville 9 N J

Weldenhoff Corp Algona Iowa

GAGES. Gasoline, Auto (Dash Type)

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Elec-

tric)
Electric Auto-Lite Co Toledo 1 Ohio
K-S Tèlegage—See King Seeley Corn.
King-Seeley Corn., 315 S First St., Ann
Arbor, Mich "K-S Telegage"

Arnor, Mich. "K.-S. Telegage."
Stewart-Warner Corp. Instrument. Div. 1826
Diversey Parkway Chicago III (Electric)
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa. (Electric.)

GAGES, Gasoline, Auto (Tank Type)

Boston Auto Gage Co 70 West St Pittsfield Mass "Triumph" Mass Triumph Electric Auto-Lite Co Toledo 1 Ohio Kochester Mfg. Co., 100 Kockwood St., Itochester 10, N. Y. Triumph—See Boston Auto Gage Co

GAGES, Height

Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio "Indi-Ac" (Electronic) 'Indi-Ac-Sec Cleveland Instrument Co Merz Engineering Co., Zon S Harding St., Indianapolis 7. Ind. (Electronic.) Sheffield Corp 721 Springfield St Dayton 1

GAGES, Inspection or Manufacturing

Ames, B. C., 12 Ames St., Waltham 54, Mass. Bryant Chucking Grinder Co., 257 Clinton St., Springfield, Vt. Comtor Co., 8; Rumford Ave., Waltham.

Mass.

Dow Mechanical Corp Thompsonville Conn

K-F & D Mfg Co 334 Charters Oak St Manchester Conn

Merz Engineering Co., 200 S. Harding St.,
Indiananolis 7. Ind.

Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Schert Co., George, 200 Lafayette St., New
York, N. Y.

Sheffield Corp., 721 Springfield St., Dayton 1,

Ohio
Standard Gapp Co Poughkeepsle N Y
Taft-Peirce Mfg. Co., 32 Mechanic Ave.,
Woonsocket !! I
Toledo Scale Co Telegraph Rd Toledo 13 Ohio
Tubular Micrometer Co St James Minn
Van Keuren Co., 176 Waitham St., Water-Minn Water-Van Keuren Co.

Davis Gage & Engrg Co A G 21435 Dequindre Rd Hazel Park Mich (Groove)
Interapid—See Portage Double Quick Inc
Portage Double Quick Inc 1033 Sweitzer Ave
Akron Ohio "Interapid" (Groove)

GAGES, Limit

AGES, Limit

Air-O-Limit—See Pratt & Whitney Co

Brown & Sharpe Mfg. Co., 235 Promenade

St., Providence, R I.

Dow Mechanical Corp Thompsonville Conn
Electrolimit—See Pratt & Whitney Co
GTD—See Greenfield Tap & Die Div
Greenfield Tap & Die Div United-Greenfield
Corp Sanderson St Greenfield Mass "GTD"
Nilco—See Nilsson Gaze Products Inc
Nilsson Gage Products Inc Hyde Park N Y
"Nilco"

Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Air-O-Limit" "Electro-

limit"
Sheffield Corp 721 Springfield St Dayton 1 Standard Gage Co Poughkeepsie N Y

ubular Micrometer Co St James Minn Filley's Carbide Tool Co., 1340 W. Vernon Highway, Detroit 1, Mich.

GAGES, Oil Level

Bristol Co Waterbury 20 Conn
Electric Auto-Lite Co Toledo I Ohio
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Rochester Mfg Co 100 Rockwood St Rochester 10 NY
Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicaro 14 Ill
Trico Fuse Mfg Co 2948 N 5th St Milwaukee
12 Wis

GAGES, Oil Pressure

AC The Electronics Div of General Motors
1300 N Dort Highway Flint 2 Mich (Mechanical and electric)
Bristol Co Waterbury 20 Conn
Dunn Mfg. Co., 117 15th St., Clarinda, Iowa
"Majestic." (For Ford cars.)
Electric Auto-Lite Co Toledo 1 Ohio
K-S Tolerange—See King.-Seelev Corp.
Kent-Moore Organization Inc 1501 8 Jackson
St. Jackson Mich.

Kent-Moore Organization Inc 1501 8 Jackson St Jackson Mich St Jackson Mich St Jackson Mich St. 15 8 First St. Ann Arhor, Mich. "K-S Telegang." Majestic—See Dunn Mfg. Co. Murphy Mfr Inc Frank W 5428 E Admiral Pl Tulsa Okia (With safety switch) Rochester Mfg. Co. 100 Rockwood St., Rochester 10, N. Y. Schwarze Electric Co., Church St. at Payne Ave., Adrian, Mich. "Teloil." (For Ford cars.) Snap-On Tools Corp 8046 28th Ave Kenosha Snap-On Tools Corp 8046 28th Ave Kenosha Wis

GAGES, Oil Pressure-continued

Stewart-Warner Corp Instrument Div 1826 Diversey Farkway Chicago III Teloil—See Schwarze Electric Co. United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

GAGES, Oil Temperature Indicating (For indicating the temperature of the lubricating oil)

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Me-chanical and electric) Bristol Co Waterbury 20 Conn Stewart-Warner Corp Instrument Div 1826 Diversey Farkway Chicago 14 Ill

GAGES, Piston Pin Fitting

Sunnen Products Co., 7910 Manchester Ave., St. Louis 17. Mo. Tamco—See Tobin-Arp Mfg Co Tobin-Arp Mfg Co 6400 Penn Ave S Min-neapolis 23 Minn "Tamco"

GAGES, Piston Ring

Burd Piston Ring Co Box 567 Eau Claire

GAGES, Plug and Ring

Besly-Welles Corp 20 N Wacker Dr Chicago 6 III Boice Gages Inc Hyde Park N Y Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. Cadillac Gage Co P O Box 3806 Detroit 5

Mich Card S W Div Union Twist Drill Co Rum-ford Ave Mansfield Mass (Thread and cyl-indrical) Crafts Co., Arthur A., 603 Newbury St., Kenmore Square, Boston 15, Mass. Do All Co 254 N Laurel Aves Des Plaines Mich

Do Ill

III ju Bo—See Standard Gage Co. TD—See Greenfield Tap & Die Div reenfield Tap & Die Div United-Green-field Corp Sanderson St Greenfield Mass

Held Corp Sanderson of Corp.

"GTD"

HW—See Hanson-Whitney Co
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW" (Thread)

Hy-Pro Tool Co 461 Mt Pleasant St New
Bedford Mass (Thread and plain)

Lincoln Park Industries, Inc., 1719 Ferris

Ave., Lincoln Park 25, Mich.

Metal Carbides Corp 107 E Indianola Ave
Youngstown 7 Ohio

Nilco—See Nilsson Gage Products Inc

Nilsson Gage Products Inc Hyde Park N Y

"Nilco"

"Nilco"
Pipe Machinery Co 29100 Lakeland Blvd
Wickliffe Ohio
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn "Trilock" "Taperlock"
Republic Gage Co 2228 Fenkell Ave Detroit Mich Sheffield Corp., 721 Springfield St., Dayton 1,

Ohio,
Size Control Co., Div. American Gage & Ma
chine Co., 2500 Washington Bivd., Chicago
12, Ill. (Reversible plug.)
Standard Gage Co Poughkeepsie N Y "DuDo"

Standard Gage Co Poughkeepsie N Y "Du-Bo"
Standard Thread Gage Co 26538 W Seven Mile Rd Detroit 19 Mich (Thread)
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Taft-Peirce Mfg. Co., 32 Mechanics Ave., Woonsocket, R I.
Taperlock—See Pratt & Whitney Co
Van Keuren Co., 176 Waltham St., Watertown, Mass, (Plug.)
West & Dedge Thread Gage Co., 6 Power House St., South Boston 27, Mass.
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.
Woodworth Co., N. A., 1300 E. Nine Mile Road, Detroit 26, Mich. (Thread.)
AGES, PRECISION—See Blocks, Gage

GAGES, PRECISION—See Blocks, Gage

GAGES, Sight

Gits Bros Mfg Co 1846 S Kilbourn Ave Chi-cago 23 Ili

GAGES, Steam and Air

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Air Bolce Gages Inc Hyde Park N Y Bristol Co Waterbury 20 Conn

CompAirator—See Taft-Peirce Mfg Co CompUtair—See Taft-Peirce Mfg Co Federal Products Corp 1144 Eddy St Provi-dence R I (Air dimensional) Freeland Gauge Co 9940 Freeland Ave Detroit 27 Mich (Air)

Freeland Gauge Co 3940 Freeland
27 Mich (Air)
Lincoln Engrg Co 4010 Goodfellow Bivd St
St Louis 20 Mo (Air)
Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicago 14 III (Air)
Taft-Feirce Mfg Co 32 Mechanic Ave Woonsocket R I "CompAirator" "CompUtair"
(Air)

(Air)
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Velvac Inc 3534 W Pierce St Milwaukee 15
Wis (Air for testing air brakes)

GAGES, Surface

Ames Co., B. C., 12 Ames St., Waltham 54 Mass.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Hjorth Lathe & Tool Co., 12 Beacon St.,

Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass, Lufkin Rüle Co., Hess Ave., Saginaw, Mich. Millers Falls Co., Greenfield, Mass. Standard Gage Co Poughkeepsie N Y Starret Co L S 1 Crescent St Athol Mass Tubular Micrometer Co St James Minn

Wis
Circle Gauge Co 14339 Bessemer St Van Nuya
Calif "Ring-Mike"

Ring Mike—See Circle Gauge Co.

GAGES, TANK—See Gages, Gasoline, Auto
(Tank Type); also Gages, Gasoline, Auto
(Dash Type) (Tank Type (Dash Type)

GAGES, Thickness or Feeler Akuret—See Kastar, Inc. Almond—See D'Nomlart Inc Ames Co., B. C., 12 Ames St., Waltham 54 Ames Co., B. C., 12 Ames St., Waitham 54 Mass.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Blackhawk—See New Britain Machine Co
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cal-Van Machine Products Inc 809 S Water Cal-Van Machine Products Inc 809 S Water St Jackson Mich Central Tool Co 456 Wellington Ave Cranston 10 R I Cornwell Quality Tools Co., Mogadore, Ohio D'Nomiart Inc 100 Maple St Ashburnham Mass "Almond"

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 29. Ill Federal Products Corp 1144 Eddy St Providence R I (Dial Indicator)

Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome" Ideal—See Tacony File & Hardware Co. Kastar Inc 200 Lincoln Ave New York 54 N Y "Akuret" "Precision"

Kent-Moore Organization Inc 1501 S Jackson

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich Keystone Reamer & Tool Co., Millersburg.

Pa.

Klopp Engrg Inc 25551 Schoolcraft St Livonia
Mich "Master Tool"
Lincoln Park Industries, Inc., 1719 Ferris
Ave., Lincoln Park 25, Mich.
Lufkin Rule Co Hoss Ave Saginaw Mich
Machined Parts Corp., 6209 Hamilton Ave.
Detroit 2, Mich. "Mapco."
Manco.—See Machined Paris Corp.

Master Tool—See Klopp Engrg Inc Miller Co L B 336 W Main St Stamford

Master Tool—See Ribby
Miller Co L B 336 W Main St Stamford
Conn
Millers Falls Co., Greenfield, Mass.
Nasa Tool Mig Corp 3427 Locust Corner Rd
Amelia Ohio
National Machine & Tool Co., 4677 Page
Ave., Jackson, Mich.
New Britain Machine Co Hand Tool Div
South St New Britain Conn "Blackhawk"
& "New Britain"
OTC—See Owatonna Tool Co.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC"
P & C Hand Forged Tool Co Box 5926 Milwaukie Ore
Precision—See Kastar Inc
Preferred Electric & Wire Co., Bush Terminal Bids. No. 8, Brooklyn 32, N. Y.
Proto Tools 2209 Santa Fe Ave Los Angeles
64 Call?

Proto Tools 2209 Santa Fe Ave Los Angeles 54 Calif Quality Tools Corp Railroad St New Wilmington Pa Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Sheffield Corp 721 Springfield St Dayton 1

Ohio
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Starrett Co L S 1 Crescent St Athol Mass (Also feeler stock)
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Ideal."
Union Tool Co., 48 E. River St., Orange.

Van Chrome—See Herbrand Div., Bingham-Herbrand Corp. Van Keuren Co., 176 Waltham St., Watertown, Mass.

Wilde Drop Forge & Tool Co., 2336 Fairmount Ave., Kansas City, Mo.

Williams & Co J H 400 Vulcan St Buffalo 7

Zoerman-Clark Mfg Co 624 N Mechanic St

GAGES. Thread

Bath & Co., John, 18 Grafton St., Worcester Mass. y-Welles Corp 20 N Wacker Dr Chicago

Besly-Welles Corp 20 N Wacker Dr Chicago 5 III
Bolce Gages Inc Hyde Park N Y
Brown & Sharpe Mfg. Co., 235 Promenade St.,
Providence, R. J.
Do All Co 254 N Laurel Ave Des Plaines III
Federal Products Corp 1144 Eddy St Providence R I
HW—See Hanson-Whitney Co
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW"
Keystone Reamer & Tool Co., Millersburg,
Pa.

Lufkin Rule Co Hess Ave Saginaw Mich Pine Machinery Co 29100 Lakeland Blvd Lufkin Rule Co Hess Ave Saginaw Mich Pipe Machinery Co 29100 Lakeland Blvd Wickliffe Ohio Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn Republic Gage Co 2228 Fenkell Ave Detroit 38 Mich "Republic" ""Itan" "V-Nide" Rotochek.—See Taft-Pelree Mig Co Shedlieid Corp., 721 Springfield St., Dayton,

Size Control Co., Div. American Gage & Machine Co., 2500 Washington Blvd., Chicago 12 III (Reversible)

Starrett Co L S 1-165 Crescent St Athol

Mass
Tatt-Peirce Mfg. Co., 22 Mechanic Ave.,
Woonsocket R I. "Rotochek"
Titan—See Republic Gare Co
Tubular Micrometer Co St James Minn
Union Tool Co., 48 E. River St., Orange,
Mass.

Mass.

V-Nide—See Republic Gage Co

Van Keuren Co., 176 Waltham St., Watertown, Mass. (Wires.)

West & Dodge Thread Gage Co., 6 Power

House St., South Boston 27, Mass.

GAGES, Tire Pressure (Hand) (See also Gages, Chuck [Tire Inflat-ing])

Acme Air Appliance Co 205 Newman St Hackensack N J Bridgeport Brass Co 30 Grand St Bridgeport

Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif "Tru-Flate" (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif) Fisher Products Corp A R 21-21 44th Dr Long Island City 1 N Y G M Co Mfg Inc 13-08 43rd Ave Long Island City, La L., N. Y. Hand-D—See Syracuse Gauge Co Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38. N. Y. Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis

Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis Stracuse Gauge Co P O Box 51 Manlius N Y "Hand-D" Tru-Flate—See Druge Bros. Mfg. Co.

GAGES, TOOLMAKERS' — See Instruments, Precision Measuring for Toolrooms

GAGES, Torque

Aircraft Products Div Manning Maxwell & Moore Shelter Rock Lane Danbury Conn "Asheroft" Moore Sheller Avox "Ashcroft" Ashcroft" Ashcroft Products Div Manning Maxwell & Moore Sturtevant Co P A Addison Ill Waters Mfg Inc Boston Fost Rd Wayland

GAGES, VACUUM-See Gages, Engine Vacuum

GAGES, Valve Clearance

Atmars Tool Co 3561 Lakeshore Ave Oak-land 10 Calif land 10 Calif Automotive Service Tools Inc 700 Sheridan St Lansing 6 Mich "Micro-Gage" Cedar Rapids Engrg Co 902 N 17th St Cedar Rapids Ia "Kwik-Way" Clayborne Mfg Co 429 N Main St Monticello

Ind Kwik-Way-See Cedar Rapids Engrg Co Micro-Gage-See Automotive Service Tools

Inc
National Machine & Tool Co 4077 Page Ave
Jackson Mich
P & G Mfg Co 305 N E Russell St Portland
12 Ore "P & G Valve-Gapper"
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn

GAGES. Vernier Height

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I Chesterman—See George Scherr Co. rividence 1 R I Chesterman—See George Scherr Co. Lufkin Rule Co Hess Ave Saginaw Mich Scherr Co George 200 Lafayette St New York 12 N Y "Chesterman" Starret Co 1-165 Crescent St Athol Mass Tubular Micrometer Co St James Minn

GAGES, Water Temperature Indicating (For attachment to radiator cap or dash to show temperature of cooling water)

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Me-chanical and electric)

Electric Auto-Lite Co Toledo 1 Ohio King-Seeley Corp., 315 S. First St., Ann Arbor, Mich. Electric Auto-Lite Co. King-Seeley Corp., 315 S. First St., Arbor, Mich. Murphy Mfr Inc Frank W 5428 E Admiral Pl Tulsa Okla (With safety switch) Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y. Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago Ili United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Selmert-Seeley Pa.

GAGES. Wheel and Axle Aligning

Bean Div Food Machinery & Chemical Corp John 1805 S Cedar St Lansing 4 Mich Bear Mfg Co 21st St & Fifth Ave Rock ear Mfg Island Ill

Island Ill

Bee-Line Co., Box 569, Davenport, Iowa.

Bender Equipment Co J H 5430 Tweedy Blvd

South Gate Calif

Bennett-Feragen 1408 Jerome St Niles Mich

Cornwell Quality Tools Co., Mogadore, Ohio

"Cornwell-Krumm."

Duby Co., John F., 744 Gallivan Blvd., Dor
chester 22, Mass. "Duby." "Ideal."

Dyn-A-Lyzer-See Manbee Equip Div Beat

Mrg Co

Hunter Engrg Co Hunter Ave & Ladue Ba

Dyn-A-Lyzer—See Manbee Equip Div Bear
Mfg Co
Hunter Engrg Co Hunter Ave & Ladue Rd
St Louis 24 Mo "Lite-A-Line" (Wheel)
Ideal—See John F. Duby Co.
Kent-Moore Organization Inc 1501 S Jackson
St Jackson Mich
Krumm Mfg. Co., T. F., 5150 Lewis Ave.
Toledo 12, Ohio.
Kwik-Ezee Inc 54 Brooklyn Ave Westbury
N Y (Magnetic)
Lite-A-Line—See Hunter Engrg Co
Manbee Equipment Div Bear Mfg Co P O
Box 607 Rock Island Ill "Dyn-A-Lyzer"
Merrill Axle & Wheel Service 12th & Acoma
Sts Denver Colo
Mesco Products, Crete, Nebr.

Mesco Products, Crete, Nebr. Snap-On Tools Corp 8046 28th Ave Kenosha

caver Mig Co 2177 S Ninth St Spring-field III 'illco Products, Inc., 595 Valley St., Orange, N. J.

Zoerman-Clark Mfg. Co., Jackson, Mich. GAGES, WIRE—See Gages, Drill and Wire GALVANIZING MACHINES — See Machines, Galvanizing

GALVANIZING, SHERARDIZING and RUSTPROOFING

RUSTPROOFING
Clapp Mfg. Co., E. D., 305 W. Genesee St.,
Auburn, N. Y. (Galvanizing.)
Parker Rust Proof Co 2177 E Milwaukee
Ave Detroit 11 Mich
Rust-Proofing & Metal Finishing Corp., 75
Commercial Ave., Cambridge, Mass. (Bonderizing, parkerizing and rust-proofing.)
United Platers Inc 3456 Denton Ave Detroit
11 Mich (Rust-proofing)

GANG DRILLS—See Machines, Drilling (Mul-tiple Spindle)

GAS, Acetylene (In Cylinders and Tanks) (For acetylene welding)

Airco—See Air Reduction Sales Co.
Air Reduction Sales Co Socony-Mobile Bidg
150 E 42nd St New York 17 N Y "Airco"
Burdet Oxygen Co of Cleveland Inc.
Lakeside Ave Cleveland 14 Ohio "Burdox"
Burdox—See Burdett Oxygen Co. of Cleveland Inc.

iand, Inc.
Linde Co 30 E 42nd St New York 17 N Y
"Prest-O-Lite" (Cylinders)
Liquid Carbonic Corp Industrial Gas Div
Front & Porter Sts Philadelphia 48 Pa
(Cylinders)
NCG—See National Cylinder Gas Co.

(Cylinders) NGS—See National Cylinder Gas Co. National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.) Prest-O-Lite—See Linde Co

GAS, Hydrogen (In Cylinders and Tanks)

Burdett Oxygen Co. of Cleveland, Inc., 2300
Lakeside Ave., Cleveland 14. Ohio.
Linde Co 30 E 42nd St New York 17 N Y
Liquid Carbonic Corp Industrial Gas Div
Front & Porter Sts Philadelphia 48 Pa
(Cylinders)
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co. 840 N. Michigan
Ave., Chicago 11, Ill. "NCG." (Cylinders.)

X-L—See Excelsior Leather Washer Mfg Co
GASKETS, COMPOSITION—See Paste, Gasket Making

GASKETS, Copper
Acme Mfg. & Gasket Co., 738 N. 41st St.,
Philadelphia 4, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown, Conn.
Cleveland Gasket & Mfg. Co.

GAS, Oxygen (In Cylinders and Tanks)

(For oxy-acetylene welding) (For oxy-acetylene welding)
Airco—See Air Reduction Sales Co
Air Reduction Sales Co Socony-Mobil Bidg
150 E 42nd St New York 17 N Y "Airco"
Burdett Oxygen Co of Cleveland Inc 3300
Lakeside Ave Cleveland 14 Ohio
Linde Co 30 E 42nd St New York 17 N Y
Liquid Carbonic Corp Industrial Gas Div
Front & Porter Sts Philadelphia 48 Pa
(Cylinders)
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co., 840 N. Michigan
Ave., Chicago 11, Ill. "NCG." (Cylinders.)
GAS FURNACES—See Furnaces, Gas
GASKET CUTTERS—See Cutters, Washer
and Gasket

MAKING PASTE-See Paste, Gasket Making

GASKETS, Asbestos

Accopac—See Armstrong Cork Co
Acme Mfg & Gasket Co 73s N 41st St Philadelphia 4 Pa
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co Industrial Div Lancaster
Pa "Accopac"
Auberton—See Auburn Mfg Co
Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown, Conn. "Aubeston."
Beaverite Products Inc Beaver Falls N Y
Burgess Leather Co., A. E., Brigham Hill Rd.
Grafton, Mass.
Chambers Gasket & Mfg. Co 4701 W Rice
St Chicago 51 Ill "Superbestos"
Cleveland Gasket & Mfg. Co., 1610 W. 116th
St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co 37-29
Murray St N Y 7 N Y "Primrose" "Consoloo"

Consolco-See Consolidated Packing & Sup-

ply Co.
Cooper Mfg. Co., 411 S. First Ave., Marshall-town, Iowa. "Cooperbes."
Darcoid Co., 145 Sixth Ave., New York 13, N. Y. "Dominion"
Detroit Gasket & Mfg Co 12640 Burt Rd Depointed. See Paracid Co.

troit 23 Micn
Dominion—See Darcoid Co.
Duroid—See Rogers Corp
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford III "X-L"
Felt Products Mfg Co 7450 N McCormick
Blyd Skokie III "Wirepak"
Fitzgerald Mfg. Co., 691 Main St., Torrington Conp.

Garlock Packing Co., 402 Main St., Palmyra, N. Y.

N. Y.
Gasket Engrg Co 3125 Wyandotte St KanCity 11 Mo
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Greene, Tweed & Co., North Wales, Pa
"Palmetto."

Marston Co., I. G., 228 Ruggles St., Boston 20, Mass.

Meirath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa. Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Blvd., Norfolk 5, Va. Palmetto—See Greene, Tweed & Co. Primrose—See Consolidated Packing & Supply Co.

R/M—See Raybestos-Manhattan Inc Raybestos-Manhattan Inc Packing Div 61 Willet St Passale N J "R/M" Rhopac Inc 3425 Cleveland St Skokle III Rogers Corp Rogers Com "Duroid" Superbestos—See Chambers Gasket & Mfg. Co.

Co.
United Packing & Gasket Engrg Corp 5111
Ogden Ave Cicero 50 III
Velbestos—See Vellumoid Co.
Vellumoid Co., 54 Rockdale St., Worcester 6.
Mass. "Velbestos"; "Wirebestos." (Wire

Vellumold Co., 51 rovens Mass. "Velbestos"; "Wirebestos." (wire woven.) Wirebestos—See Vellumold Co. Wirepak—See Felt Products Mfg. Co. Wisconsin Gasket & Mfg. Co., 8724 N. Gran-ville Rd., Granville, Wis.

X-L-See Excelsior Leather Washer Mfg Co

Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn. Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2. Ohio.

permoid—See Vellumoid Co gerald Mig. Co., 681 Main St., Torrington,

Copperhis Co., 681 Main St., Torrington, Conn.
Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Meirath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Press Work Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich United Packing & Gasket Engrg Corp 5111 Ogden Ave Citero 50 III Vellumoid Co 54 Rockdale St Worcester 6 Mass "Coppermoid"
Victor Mfg. & Gasket Co., 5750 W. Roose-

Mass "Coppermoid" ictor Mfg. & Gasket Co., 5750 W. Roose-velt Rd., Chicago 50, Ill.

GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Felt Products Mfg Co 7450 N McCormick Blvd Skokie III

Fitzgerald Mfg Co 691 Main St Torrington Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y Keystone Gasket Mfg. Co., 823 N. Fourth St., Philadelphia 23, Pa.

Philadelphia 23, Pa.

McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich "McKim"

McKim—See McCord Corp.

Melrath Supply & Gasket Co., Tioga &

Memphis Sts., Philadelphia 34, Pa.

Sure-Rite—See Warehouse Dist Co

United Packing & Gasket Engrg Corp 5111

Orden Ave Cleare, 56 UII

Memphis Sts. Philadelphia 34, Pa. Sure-Rite—See Warehouse Dist Co United Packing & Gasket Engrg Corp 5111 Ogden Ave Cleero 50 Ill Victopac—See Victor Mfg & Gasket Co Victor Mfg & Gasket Co, 5750 W. Roosevelt Rd., Chicago 50, Ill. ("Victori:" "Victopac." Asbestos-copper-rubber.) Warehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite"

GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Alco—See Alloy Mfg Co Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Alco," "Alloy." "Quality Built." Armstrong Cork Co Industrial Div Lancaster Pa (Composition)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich Carrocork—See Felt Products Mfg. Co. Chambers Gasket & Mfg Co 4701 W Rice St. Chicago 51 Ill "Durocork" "Supercork" Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohlo.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.
Cranz Co J M 2671 Main St Buffalo 14 N Y Detroit Gasket & Mfg. Co. 12640 Burt Rd.
Detroit Gasket & Mfg. Co. 12640 Burt Rd. etroit Gasket & Detroit 23 Mich



Circle 231 on Inquiry Card for more data

GASKETS, Cork-continued

Durocork—See Chambers Gasket & Mfg. Co. Excelsion Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L" Felcoid—See Felt Products Mfg. Co. Felt Products Mfg. Co. Felt Products Mfg. Co. Felt Products Mfg. Co. Eliva Sakokie Ill "Fel-Pro" "Carrocork" Fitz-Cork"

Fitz-Cork—See Fitzgerald Mfg. Co. Fitzgerald Mfg. Co., 691 Main St., Torring-ton. Conn. "Fitz-Cork." ton. Conn. "Fitz-Cork." Garlock Packing Co., 402 Main St., Palmyra, N. Y.

N. Y.
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Hy-Cork—See Wolverine Fabricating & Mfg

Co
Co
Jointite—See Mundet Cork Corp.
Keystone Gasket Mfg. Co., 833 N. Fourth St.,
Philadelphila 23, Pa.
McCord Corp Riopelle at E Grand Bivd
Detroit 11 Mich
Marston Co., I. G., 226 Ruggles St., Boston
20 Mage.

Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div. Sheller Mfg. Corp., 8900 Hampton Ave., Norfolk 5, Va.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J. "Jointite."
Neo-Cork—See Wolverine Fabricating & Mfg.

Co
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Quality Built—See Alloy Mfg. Co.
Rhopac Inc 3425 Cleveland St Skokie Ill
Rub-Cork—See Wolverine Fabricating & Mfg

Co
Superrork—See Wolverine Fabricating & Mig. Co.
Super-Rite—See Chambers Gasket & Mfg. Co.
Sure-Rite—See Warehouse Dist Co
Sutherland Leather & Felt Co 743 Beaublen
St Detroit 26 Mich
United Packing & Gasket Engrg Corp 5111
Ogden Ave Citero 50 III
Warehouse Distributing Co 3810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville. Wis
Wolverine Fabricating & Mfg Co 2638 Princess Ave Inkster Mich "Hy-Cork" "NeoCork" "Rub-Cork"
X-L—See Excelsior Leather Washer Mfg Co

GASKETS, Cylinder Head (For Diesel Engines)

Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Twin-Type Steelbestos"

GASKETS, Felt

American Felt Co Glenville Conn Continental Felt Co 22 W 15 St N Y 11 N Y

GASKETS, Fibrous

Accopac—See Armstrong Cork Co Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Algco—See Auburn Mfg Co Anchor Packing Co., 401 N. Broad St., Phila-

Algco—See Auburn Mfg Co
Anchor Packing Co., 401 N. Broad St., Philadelphia & Pa.
Armstrong Cork Co Industrial Div Lancaster
"Acopac."
Alburn Mfg Co., Pease Ave. & Stack St.,
Middletown, Conn. "Algco"
Beaverite Products Inc Beaver Falls N Y
Brandywine Fibre Products Co 15th & Poplar
Sts Wilmington Dei
Burgess Leather Co., A. E., Brigham Hill
Rd., Grafton, Mass.
Chambers Gasket & Mfg Co 4701 W Rice
St Chicaro 51 Ill "Super-Pak"
Circle Z RFD No 2 Pomfret Center Conn
Cleveland Gasket & Mfg. Co., 1692 W. 116th
St., Cleveland 2, Ohlo.
Consolidated Packing & Supply Co 37-39
Murray St N Y 7 N Y "Wisoid"
Continental-Diamond Fibre Corp Newark 10
Dei "Diamond"
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa. "Gaskoid," "Korkite."
Cranz Co J M 2671 Main St Buffalo 14 N Y
PeLoid—See Detroit Gasket & Mfg. Co.
Detroit Gasket & Mfg. Co. 12640 Burt Rd
Detroit 23 Mich "DeLoid" "Korkoid"
"Springoid"
Diamond—See Continental - Diamond Fibre
Corp
Uroid—See Rogers Corp

Diamon Corp Duroid-

Corp
Duroid—See Rogers Corp
Excelsior Leather Washer Mfg Co 720
Chestnut St., Rockford, Ill. "X-L."
Felcoid—See Felt Products Mfg Co
Felt Products Mfg Co 7450 N McCormick
Blvd Skokle Ill "Felcoid" "Karropak"
Ferropac—See Victor Mfg. & Gasket Co.
Fitzgerald Mfg. Co., 691 Main St., Torring
ton Con. ton, Conn.

Garlock Packing Co., 402 Main St., Palmyra,

N. Y.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Gaskoid—See Cooper Mfg. Co.
Karropak—See Felt Products Mfg. Co.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23. Pa.

Frinaceipnia 23, Fa. Korkite—See Cooper Mig. Co. Korkoid—See Detroit Gasket & Mig. Co. Latex Fiber Industries Inc Beaver Falls N Y M & S—See Mitchell & Smith Div., Sheller M & S—See Mitchell & Smith Div., Sheller Mfg. Corp. Marston Co., I. G., 226 Ruggles St., Boston

20, Mass.
Melrath Supply & Gasket Co., Tiog
Memphis Sts., Philadelphia 34, Pa.,
Mitchell & Smith Div., Sheller Mfg. C
8900 Hampton Blvd, Norfolk 5, Va.

8900 Hampton Blvd, Norfolk 5, Va. "M & S."
Peun Fibre & Specialty Co 2024 E Westmoreland St Philadelphia 34 Pa
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Presstite-Keystone Engrg Products Co 3900 Chouteau St St Louis 10 Mo Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rogers Corp. Rogers Conn. "Duroid"

Philadelphia 24, Pa.
Rogers Corp Rogers Conn "Duroid"
Springold—See Detroit Gasket & Mfg C
Super-Pak—See Chambers Gasket & M

Co. Taylor Fibre Co., Norristown, Pa.
United Facking & Gasket Engrg Corp 5111.
Ogden Ave Cicero 50 III
Vellumoid Co., 54 Rockdale St., Worcester 6
Mass. "Velbuna," "Vellumoid," "Vellutex.'
Vellutex—See Vellumoid Co.
Victor Mrg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, III. "Victorite,"
"Ferropac" & "Victolex"
Victolex—See Victor Mrg. & Gasket Co.
Victorite—See Victor Mrg. & Gasket Co.
Vulkol—See Wolverine Fabricating & Mrg.
Co.

Warehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite" Philadelphia 40 Pa "Sure-Rite"
Wilmington Fibre Specialty Co New Castle

Del Wisconsin Gasket & Mfg Co., 8724A N. Granville Rd., Granville, Wis. Wisoid—See Consolidated Packing & Supply

Co.
Wolverine Fabricating & Mfg Co 2638 Princess Ave Inkster Mich "Vulkol"
X-L—See Excelsior Leather Washer Mfg.

GASKETS, Flexible Metallic

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Consolidated Packing & Supply Co 37-39 Murray St N Y 7 N Y Detroit Gasket & Mfg Co 12440 Burt Rd Detroit 23 Mich "Steelbestos" "Twh-Type steelbestos elt Products Mfg Co 7450 N McCormick Blvd Skokie III

Fitzgerald Mfg. Co., 691 Main St., Torring-Fitzgerald Mig. Co., 594 Sasti.
ton, Conn.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Marston Co., I. G., 226 Ruggles St., Boston

Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.

Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.

Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 31. Pa.

Steelbestos—See Detroit Gasket & Mfg. Co.
Twin-Type Steelbestos—See Detroit Gasket & Mfg. Co.

United Packing & Gasket Engrg Corp 5111
Ogden Ave Cleero 50 III.

Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, III.

Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

GASKETS, HARD FIBRE-See Fibre, Hard

GASKETS, Lead and Lead Alloy

GASKETS, Lead and Lead Alloy

Acme Mfg. & Gasket Co., 738 N. 41st St.,
Philadelphia 4, Pa.

Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown, Conn.

Belmont Smelting & Refining Works, 326a
Belmont Ave., Brooklyn, N. Y.

Cleveland Gasket & Mfg. Co., 1610 W. 116th
St., Cleveland 2, Ohlo.

Division Lead Co 7742 W 61st Pl Summit Ill
Freeway Washer & Stamping Co P O Box
1756 Cleveland 5 Ohlo (Lead)

Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y

Keystone Gasket Mfg. Co., 833 N. Fourth
St., Philadelphia 22, Pa.

Marston Co., I. G., 226 Ruggles St., Boston
20, Mass.

Melrath Supply & Gasket Co., Tloga &
Memphis Sts., Philadelphia 34, Pa.

Press Work Inc Lead Alloy Products Div \$100 Roselawn Ave Detroit 4 Mich Superior Wrought Washer 1951 W 90th St Cleveland 2 Ohio (Lead) United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 III Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 5 III Wisconsin Gasket & Mfg Co 8724 N Gran-ville Rd Granville Wis Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis rought Washer Milwaukee 7 Wis

GASKETS, Leather

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Alco—See Alloy Mfg Co
Alloy Mfg Co 3207 S Shields Ave Chicago 16 III "Alco" "Quality Bullt"
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Backstay Weit Co., Oak & Howard Sts., Union City. Ind.
Burgess Leather Co., A. E. Brigham Hill Rd., Grafton, Mass.
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 III "Reliance"
Consolidated Packing & Supply Co 37-39 Murray St N Y 7 N Y
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, III. "X-L."
Felt Products Mfg Co 7450 N McCormick Blyd Skokle III
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.

ton, Conn. Garlock Packing Co., 402 Main St., Palmyra, N. Y.

Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y Graton & Knight Co., 356 Franklin St., Worcester 4, Mass., Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Vim" Illinois Mechanical Leather Co 1720 N Winchester Ave Chicago III "Polar Bear" Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23 Pa. Krug Co North St Barnum Cou t Danbury Conn

Conn Marsh Co., Charles W., 32 Hudson St., Mus-kegon, Mich. Marston Co., I. G., 226 Ruggles St., Boston

20, Mass.

Relrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 24, Pa.

Polar Bear—See Illinois Mechanical Leather Co.

Quality Built—See Alloy Mfg Co Reliance—See Chicago-Allis Mfg Corp Sutherland Leather & Felt Co 743 Beaublen St., Detroit 26, Mich.

St., Detroit 26, Mich.

United Packing & Gasket Engrg Corp 5111
Ogden Ave Cicero 56 III
Vim—See E F Houghton & Co
Warren Belting Co., 33 Arctic St., Worcester 8, Mass.

8, Mass. "isconsin Gasket & Mfg. Co., 8724 N. Gran-ville Rd., Granville, Wis. -I.—See Excelsior Leather Washer Mfg.

GASKETS, Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."

Ankorite-See Anchor Packing Co. Auburn Mfg. Co., Pease Ave. & Stack St., Middletown. Conn.

Automotive Products Div Crotty Corp 35 E Chicago Ave Quincy Mich "YankeePak" Beaverite Products Inc Beaver Falls N Y Chambers Gasket & Mfg. Co. 4701 W Rice St Chicago 51 Ill "Super-Paper" Circle Z RFD #2 Pomfret Center Conn Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2. Ohio.

Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Jowa.

Coyne & Paddock Inc 40-09 21st St Long island City 1 L I N Y Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich Durold—See Rogers Corp Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill. "X-L." Felt Products Mfg Co 7450 N McCormick Bivd Skokle Ill

Fitzgerald Mfg. Co., 691 Main St., Torring-

Blvd Skokle III

Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Fitz-Rite."

Fitz-Rite—See Fitzgerald Mfg. Co.

Fyberoid-See Wilmington Fibre Specialty Co

Garlock Packing Co., 402 Main St., Palmyra,

N. Y. Gasket Engrg Co 3125 Wyandotte St Kan-sas City 11 Mo Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y J-M-See Johns-Manville

Johns-Manville 23 E 40th St New York 16 N Y "J-M" N YJ-M" Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa. Kuehn Co N L 1053 N 4th St Milwaukee 3 Wis

Lo-Tork—See Wolverine Fabricating & Mfg Co S-See Mitchell & Smith Div., Sheller M

Mrg. Corp.
Marston Co., I. G., 226 Ruggles St., Bo
20, Mass.
Melrath Supply & Gasket Co., Tioga
Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Co.
8900 Hampton Blvd., Norfolk 5, Va.

Rogers Corp Goodyear Conn "Duroid" Super-Paper—See Chambers Gasket & Mfg Co

Co Sure-Rite—See Warehouse Dist Co United Packing & Gasket Engrg Corp 5111 Ogden Ave Cleero 50 III Vellumoid Co., 54 Rockdale St., Worcester 6,

Mass Mass.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. ("Victor"; "Victorite" Treated paper.)
Warehouse Distributing Co 2810 N 19th St Philadelphia 40 Pa "Sure-Rite" Wilmington Fibre Specialty Co New Castle Del "Fyberoid"

Del "Fyberold"
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville. Wis.
Wolverine Fabricating & Mfg. Co. 2638 Princess Ave Inkster Mich "Lo-Tork" (Synthetic rubber impregnated)
X-L—See Excelsior Leather Washer Mfg.

YankeePak-See Automotive Products Div Crotty Corp

GASKETS, RUBBER-See Packing, Rubber GASKETS, SOLDER-See Gaskets, Lead and Lead Alloy

GASKETS, Steel-Asbestos

Consolidated Packing & Supply Co 37-39
Murray St N Y 7 N Y
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, lowa. "Ferrobes."
Corbestos—See Victor Mfg. & Gasket Cr
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Steelbestos"
Feit Products Mfg Co 7459 N McCormick
Elvd Skokke Ill
Ferrobes—See Cooper Mfg. Co.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. Pitzgerald Mfg. Co., 691 Main St., Torrington, Conn.

Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y McCord Corp Riopelle at E Grand Bivd Detroit 11 Mich Meirath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa. Steelbestos—See Detroit Gasket & Mfg. Co. Sure-Rite—See Warehouse Dist Co United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 III Victor Mfg. & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 III Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago, III "Corbestos"

Warehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite"
Wisconsin Gasket & Mfg Co 8724 Granville Rd Granville Wis

GASKETS, Synthetic Material

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Armstrong Cork Co., Industrial Div., Lan-caster, Pa. (Cork-rubber.) Auburn Mfg Co Pease Ave & Stack St Middletown Conn.
Automotive Products Div Crotty Corp 38 B
Chicago Ave Quincy Mich (Rubber)
Chicago Ave Quincy Mich (Rubber)
Baidwin Rubber Co 366 S Blwd E Pontiac
Machines, Gear Tooth Chamfering and
Finishing
GEAR TOOTH GRINDING MACHINES—See
Machines, Grinding (Gear Tooth)

Baldwin Rubber Co 366 S Blwd E Pontiac Mich Heaverite Products Inc Beaver Falls N Y Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio Canfield Co H O 191 Housatonic Ave Bridge-port 1 Conn (Silicone) Chambers Gasket & Mig Co 4701 W Rice St Chicago 51 Ill Chicago Rawhide Mfg Co 1301 Elston Ave Chicago 22 Ill Coyne & Paddock Inc 40-09 21st St Long Island City 1 L I N Y (Neoprene) Crane Packing Co 4435 Oakton St Morton Grove Ill "John Crane" Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane" Crane Co J M 2671 Main St Buffalo 14 N Y Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich (Rubber) Duroid—See Rogers Corp Fel-Pro—See Felt Products Mfg. Co. Blvd Skokie Ill "Fel-Pro"

Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa Gariock Packing Co 402 Main St Palmyra N Y

N Y Gasgatape—See Porter Mfg. & Supply Co. Gasket Engrg Co 3125 Wyandotte St Kan-sas City 11 Mo (Rubber and fiberglass) International Packing Corp Lake St Bristol

N H (Rubber) John Crane—See

N H (Rubber)
John Crane—See Crane Packing Co
Johnson Rubber Co Middlefield Ohio
Manhattan—See Raybestos-Manhattan, Inc.,
Manhattan Rubber Div.
Melrath Supply & Gasket Co., Tioga &
Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp.
8900 Hampton Blvd., Norfolk 5, Va. (Rubber.)

8300 Hampton Blvd., Norfolk 5, Va. (Rubber.)
Polymer Corp 2120 Fairmont Ave Reading
Pa "Polypenco" (Nylon and teflon)
Polypenco—See Polymer Corp
Porter Mfg & Supply Co 2836 Sunset Blvd
Los Angeles 26 Calif "Gasgatape"
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passalc, N. J.
"Manhattan."
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave
New Brunswick N J
Rogers Corp Rogers Conn "Duroid"
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United Packing & Gasket Engrg Corp 5111
Ogden Ave Cicero 50 III
Victor Mfg & Gasket Co 5759 W Roosevelt
Rd Chicago 50 III "Victoprene" (Rubber)
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASOLINE

Sun Oil Co 1608 Walnut St Philadelphia 3

GASOLINE FILTERS-See Filters, Gasoline

GASOLINE STRAINERS-See Strainers, Gas-

GEAR BOXES-See Boxes, Gear GEAR CUTTING MACHINES—See Machines, Gear Cutting

GEAR HOBBING MACHINES-See Machines.

GEAR HOBS-See Hobs, Gear

GEAR MATERIAL, Laminated Phenolic

Celoron-See Continental - Diamond Fibre Continental-Diamond Fibre Corp Newark 10

Del "Celoron"

General Electric Co Chemical & Metallurgical Div Laminated Products Dept Coshocton Ohio "Textolite"

Ohmoid-See Wilmington Fibre Specialty Co.

Taylor Fibre Co., Norristown, Pa

Tayloir Fibre Co., Norristown, Fr Textolite—See General Electric Co Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa

Wilmington Fibre Specialty Co New Castle Del "Ohmold"

GEAR SHAVING MACHINES—See Machines, Gear Shaving

GEAR SHIFT CONTROLS—See Controls, Gear Shift (For Transmissions) GEAR SHIFTERS-See Shifters, Gear

GEAR TESTING INSTRUMENTS—See Instruments, Gear Testing

GEAR TESTING MACHINES—See Machines
Testing (Gear)

GEAR TOOTH CHAMFERING MACHINES— See Machines, Gear Tooth Chamfering and

GEARS, Cut

Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio

GEARS, DIFFERENTIAL—See Differentials, Auto; also Gears and Pinions, Rear Axle GEARS, FIBRE—See Gears and Pinions, Non-Metallic

GEARS, Flywheel Ring

Automotive Gear Div Eaton Mfg Co S Eighth & O Sts Richmond Ind "Double Diamond" Detroit Bevel Gear Co 8130 Jos Campau Ave Detroit 11 Mich Double-Diamond—See Automotive Gear Div Eaton Mfg Co

Excelsior—See Springfield Mfg. Co.
Lempco Products Inc 5490 Dunham Rd Bedford Ohio.
Perfection Gear Co 152nd St & Vincennes
Ave Harvey III
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Springfield Mfg Co Bechtle Ave & Columbia
St Springfield Ohio "Excelsior"
Wohlert Corp 760 E Grand River Ave Lansing 5 Mich

GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. Binkley Mfg Co Warrenton Mo Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohlo Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich Hammer Blow Tool Co 602½ 3rd St Wausau Wis

Hammer Blow 1904 Wis Wis Highway Trailer Co 405 E Fulton St Edger-ton Wis Holland Hitch Co., 430 W. 18th St., Holland,

Homan & Co 511 Reading Rd Reading Cin-cinnati 15 Ohio

GEARS, RAWHIDE—See Gears and Pinions, Non-Metallic

GEARS, Running (Trailer)

Fayette Mfg Co Box 8 Fayette Ohio Kelly Ryan Equipment Co Blair Nebr GEARS, SPEEDOMETER - See Gears, and Pinions, Speedometer

GEARS, Steering (Manual)

(Complete steering gear units)
Gemmer Mfg Co Div of Ross Gear & Tool
Co 6400 Mt Elliott Ave Detroit 11 Mich
Ross Gear & Tool Co 800 Heath St LaFayette Ind
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
"Safety"

GEARS, Steering (Power)

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind Ross Gear & Tool Co 800 Heath St Lafayette

Ind Safety—See Saginaw Steering Gear Div Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich "Safety" Sheppard Co R H 101 Philadelphia St Han-

GEARS, Steering (Power Units Only) Ainsworth Mfg Corp 2200 Franklin St Detroit

Ainsworth Mfg Corp 2200 FTAIRKIII St Dettor. 7 Mich 7 Mich Air-O-Matic Power Steer Corp 1478 Daven-port Ave Cleveland 14 Ohio "Apsco" (Air for trucks buses etc) Apsco—See Air-O-Matic Power Steer Corp Bendix Products Div Bendix Aviation Corp South Bend 20 Ind (Hydraulic linkage type) har-Lynn Co 2843 26th Ave S Minneapolis

Char-Ly. 6 Minn

6 Minn
Garrison Mfg Co 4609 E Shelia St East Los
Angeles Calif (Hydraulic for trucks and
tractors)
Gemmer Mfg Co Div of Ross Gear & Tool
Co 6400 Mt Elliott Ave Detroit 11 Mich
"Gemmer Hydraguide" (Hydraulic)
Monroe Auto Equipment Co 1426 E First St
Monroe Mich (Hydraulic linkage type)
Ross Gear & Tool Co 800 Heath St Lafayette
Ind "Ross Hydropower" (Hydraulic linkage type)

Ind "Hoss Hydropower" (Hydraune Ha-age type)
Safety—See Saginaw Steering Gear Div Gen-eral Motors Corp
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich

Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
"Safety"
Vickers inc Mobile Hydraulics Div Administrative & Engrg Center Detroit 32 Mich
(Hydraulic)
Tetter Mfg Co Colchester Ill (For farm tractors)



Circle 232 on Inquiry Card for more data

GEARS. Metallic)

Al-Fin Div Fairchild Engine & Airplane Corp Deer Park L I N Y (Aluminum with bonded on steel hubs semi-finished) Auto-Lite—See Electric Auto-Lite Co Celoron—See Continental - Diamond Fibre Corp

Corp
Bangor Plastics Inc Bangor Mich
Chicago Gear Works 440 N Oakley Bivd
Chicago 12 III
Cloyes Gear & Products Inc 17214 Roseland
Ed N E Cleveland 12 Ohio
Continental-Diamond Fibre Corp Newark 10
Del "Celoron"
Cy-lent—See Timing Gears Corp
D & B Mfg Co 2312 S Indiana Ave Chicago
18 III
Petrolt Perrol Gear Co 3130 los Compan Ave

16 Ill Detroit Bevel Gear Co 8130 Jos Campau Ave Detroit 11 Mich Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Elgin Machine Works, 412 N. State St., Elgin,

Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.) International Parts Corp 11th & State Sts Chicago 5 Ill Lempco Products Inc 5490 Dunham Rd Bed-

ford Ohio Martin Wells—See Martin Wells, Inc. Micarta—See Westinghouse Electric Corp. Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill Republic Gear Co 2197 Beaufait Ave Detroit

Mich Gears Corp 2801 W Fulton St Chi-Timing

Timing Gears Corp 2011 W Futer St. Cago 12 III
Wells Inc Martin 5886 Compton Ave Los Angeles 1 Calif "Martin Wells"
Westinghouse Electric Corp Micarta Div 3 Gateway Center Pittsburgh 30 Pa "Micarta" (Non-metallic)
Wolverine Gear & Parts Co Osseo Mich

GEARSETS-See Transmissions, Auto

GEARS, Transmission

GEARS, Transmission

(For complete units see Transmissions, Auto.)

Automotive Gear Div Eaton Mfg Co S 8th & O Sts Richmond Ind "Double Diamond"

Brad Foote Gear Works Inc 1309 S Cicero Ave Cicero 50 III

Ciark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich

Cotta Transmission Co., 2340.11th St., Rockford, III.

betroit Bevel Gear Co., 8120 Jos. Campau Ave., Detroit 11, Mich. (Truck and tractor.)

Ave., Detroit 11, Mich. (Truck and tractor.)
Dittmer Gear Div Borg-Warner Corp Auburn Ind
Double Diamond — See Automotive Gear
Div Eaton Mfg Co
Fairfield Mfg Co State Rd No 52 Lafayette

Ind Hy-Power—See Lion Auto Parts & Mfg Co International Parts Corp., 11th & State Sts., Chicago 5, Ill.

Chicago 5, Ill.

Lempco Products Inc 5490 Dunham Rd Bedford Ohlo

ford Ohio
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Lion Auto Parts & Mfc Co 1920 S Michigan
Ave Chicago 18 III "Hy-Power"
New Process Gear Div Chrysler Corp 500
Plum St Syracuse N Y (Truck and tractor)
Perfection Gear Co 152nd St & Vincennes
Ave Harvey III
Republic Gear Co. 2107 Beautist

Ave Harvey III
Republic Gear Co., 2197 Beaufait Ave., Detroit 7. Mich.
Warner Automotive Div Borg-Warner Corp
S Wayne St Auburn Ind

GEARS, Worm Drive (Truck)

Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass. Works, Inc., 1025 Parmele St., Beaver Gear V Rockford, Ill.

Boston Gear Works, Div. Murray Corp., 14
Hayward St., Quincy 71, Mass.
C W & G Co—See Cleveland Worm & Gear
Co

Co Chicago Gear Works, 440 N. Oakby Blvd., Chicago 12, III. Cleveland Worm & Gear Co 3274 E 80th St Cleveland 4 Ohlo "C W & G Co" Fairfield Mfg Co State Rd No 52 Lafayette

M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.

Morse Chain Co Ithaca N Y
Ohio Forge & Machine Corp 3010 Woodhill
Rd Cleveland 4 Ohio
XL Gears Inc 69 Prospect St Newark 5 N J

Timing (Metallic and Non- GEARS and PINIONS, Non-Metallic

(Rawhide, fibre, fabric and phenolic gear cutting on contract to sample or Metallic and Non-Metallic)

Celoron-See Continental - Diamond Fibre co Gear Works, 440 N. Oakley Blvd.

Chicago III Chicago Rawhide Mfg Co 1801 Elston Ave

Chicago Rawhide Mfg Co 1801 Eiston Ave Chicago 22 III Continental-Diamond Fibre Corp Newark 10 Del "Celoron" Danco-See Danielson Mfg Co Danielson Mfg Co Danielson Conn "Danco" (Nylon gears) Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Bakelite and

C—See Gries Reproducer Corp ke Corp., 228 N. La Salle St., Chicago 1,

Greaves Machine Tool Div of J A Fay & Egan Co Eastern Ave & Hazen St Cincinnati 2 Ohio
Orles Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "GRC" (Nylon) Greaves Machine Tool Div of J

(Nylon)

(Nylon)
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Micarta—See Westinghouse Electric Corp.
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del.
Ohmoid—See Wilmington Fibre Specialty CoTiming Gears Corp 2801 W Fulton St Chicago 12 Ill

Westinghouse Electric Corp Micarta Div Gateway Center Pittsburgh 30 Pa "

Wilmington Fibre Specialty Co New Castle Del "Wilmington Fibre" "Ohmoid"

GEARS and PINIONS, Rear Axle (For complete units-see Differentials, Auto)

Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.

Fairfield Mfg Co State Rd No 52 Lafayette Ind

Lempco Products Inc 6490 Dunham Rd Bed-ford Ohio

Levene Motor Co., 6245 State Rd., Philadel-phia 35, Pa.

phia 35, Pa. New Process Gear Div Chrysler Corp 500 Plum St Syracuse N Y Perfection Gear Co 152nd St & Vincennes Ave Harvey III

Republic Gear Co 2197 Beaufait Ave De-troit 7 Mich

Warner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

GEARS and PINIONS, Speedometer

Celoron—See Continental - Diamond Fibre Div Budd Co Continental-Diamond Fibre Corp Newark 10 Del "Celoron"

M. Gear Co., 28120 Gratiot Ave., East Detroit, Mich.

Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago III

GENERATOR PARTS AND ATTACHMENTS
—See Belts, Auto (Fan, Water Pump, Generator, etc.); Brushes; Colls, Field; Couplings; Cutouts, Reverse Current; Parts, Generator; also Regulators, Generator Current & Voltage (Auto)

GENERATORS, Electric Lighting and Battery Charging (Auto)

(See also Motors, Starting [Electric])

American Bosch Div American Bosch Arma Corp 3664 Main St Springfield 7 Mass "American Bosch Volt-O-Matic"

merican Generator & Armature Co 6100 W Grand Ave Chicago 25 III (Battery charg-

Auto-Lite—See Electric Auto-Lite Co.
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

General Armature & Mfg Co Box 870 Lock Haven Pa

Haven Pa
L-N—See Leece-Neville Co.
Lane & Beane 2934 Arunah Ave Baltimore
15 Md (Auxiliary)
Leece-Neville Co 1374 E 51st St Cleveland
Ohio "L-N" (Bus and truck)

GENERATORS, PLATING - See Machines, Plating GLASS, BULLET-PROOF—See Glass, Safety

GLASS, Safety

AGM-See Auto Glass Mfg Co

AGM—See Auto Glass Mfg Co
Auto Glass Mfg Co 8701 Grinnell Ave Detroit 13 Mich "AGM"
Duplate—See Pittsburgh Plate Glass Co
GMC—See Globe Auto Glass Co
GMS Products Inc 3 W Park Way Pittsburgh 12 Pa "Supratest" "SupraKoolvue"
Globe Auto Glass Co 2501 S Dearborn St Chicago 16 III "GMC"
Herculite—See Pittsburgh Plate Glass Co
LOF—See Libbey-Owens-Ford Glass Co

"Tuf-Flex"

Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa "Duplate" "Herculite" "Solex" "Twindow"

Protecto Safety Glass Co 82-04 Cooper Ave Brooklyn 27 N Y

Safetee Glass Co., 4717 Stenton Ave., Fhiladelphia 44, Pa. (Also bullet-resisting.)

Shat-R-Proof—See Shatterproof Glass Co. Shatterproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich. "Shat-R-Proof."

Solex—See Pittsburgh Plate Glass Co SupraKoolvue—See Glass Products Inc Supratest—See Glass Products Inc Tuf-Flex—See Libbey-Owens-Ford Glass Co Twindow—See Pittsburgh Plate Glass Co

GLASS BEVELING AND GRINDING MA-CHINES—See Machines, Glass Beveling and AZING COMPOUNDS — See Compounds,

Glazing MACHINES, WOOD - See Ma-GLUING chines, Gluing (Wood)

GOGGLES, Mechanics' and Welders'

American Optical Co Safety Products Div Mechanic St Southbridge Mass Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio (Welders) Cesco—See Chicago Eye Shield Co Chicago Eye Shield Co 227 W Roscoe St Chicago 18 Ill "Cesco" Chip-Weld—See Willson Products Div Cover-All—See Willson Products Div Dockson Co C H 3839 Wabash Ave Detroit 8 Mich Feater-Spec—See Willson Products Div

8 Mich Feater-Spec—See Willson Products Div GS—See General Scientific Equip Co General Scientific Equip To General Scientific Equipment Co 7516 Lime-kiln Pike Philadelphia 50 Pa "GS" Glendale Optical Co 600 W Merrick Rd Valley Stream N Y "Glensite" (Welders') Linde Co 30 E 42nd St New York 17 N Y "Oxweld" (Welders') Martindale Electric Co 1340 Hird Ave Cleveland 7 Oblo

and 7 Ohto See Willson Products Div National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Welders'.) Oxweld—See Linde Co

OXWEIG-SEE LINE CO.

Williaon Products Div Ray-O-Vac Co Second
& Washington Sts Reading Pa ("Cover
All"; "Chip-Weld" Welders'; "FeaterSpec" "Mono-Goggle" mechanics')

GOVERNORS, Engine (Auto and Truck)

Auto-Lite Co Toledo 1 Ohio Electric

Electric Auto-Lite Co Toledo 1 Ohio Handy—See King-Seeley Corp
Holley Carburetor Co 11955 E Nine Mile Rd
Van Dyke Mich
Hoof Products Co 6848 S Laramie Ave Chicago 38 III (Velocity and mechanical)
K-S—See King-Seeley Corp
Key-Matic—See Minnesota Automotive Inc
King-Seeley Corp. 315 S. First St., Ann
Arbor, Mich. "Handy" & "K-S."
Mallory Electric Corp 12416 Cloverdale Ave
Detroit 4 Mich (Combination governor and
distributor) distributor)

distributor)

distributor)

Minnesota Automotive Inc 1101 N Front St
Mankato Minn "Key-Matie"

Monarch Governor Co 2800 Tyler Rd Willow
Run Mich

Perfect Circle Corp 552 S Washington St
Hagerstown Ind "Speedostat"

Pierce Governor Co 1625 Ohio Ave Anderson Ind (Parm tractor)

Safety Speed Control Co 7806 N E Fourth
Court Miami 28 Fla (For trucks buses and
taxicabs)

taxicabs)
taxicabs)
taxicabs
t

GOVERNORS, Engine (Industrial)

Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie III (Overspeed)

GRAPHITE, Colloidal

GRAPHITE, Colloidal

Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich. "Olidag," "Aquadag," "Castordag," "Dag Dispersions," "Glydag," "Prodag," Aquadag, See Acheson Colloids Co. Costordag—See Acheson Colloids Co. Costordag—See Acheson Colloids Co. Costordag—See Acheson Colloids Coppagnate Co

"Co-Lo."

"Colloids Corp.

Colloids Corp.

Colloids Corp.

Colloids Corp.

Colloids Co.

Prodag—See Acheson Colloids Co.

Prodag—See Acheson Colloids Co.

Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio

Superior Graphite Co 1531 First National

Bank Bidg Chicago 3 Ill "Superfake"

"Lucra-Lub"

Taber's Products P O Box 171 Henrietta

Taber's Products P O Box 171 Henrietta

GRAPHITE, Lubricating

AP Parts Corp., AP Bidg., 1801 Spielbusch Ave., Toledo I, Ohlo. "def-123." Washington Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich. "Glydag," "Oli-dag," "Dag Dispersions," "Aquadag," DOUBLE-BRIGWAY INC ZZ E 40th St New York N Y "Kant Rust"

Busch & Co A G 6128 Northwest Hwy Chicago 31 Ill "Slick-Spray"

Castordag—See Acheson Colloids Co.

Dag Dispersions—See Acheson Colloids Co.

Dag Dispersions—See Acheson Colloids Co.

Gri-123—See AP Parts Corp.

Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J

Glydag—See Acheson Colloids Co.

Gold Eagle Products Co 1050 W Kinzie St.

Chicago 22 Ill

Graph-A-Cator—See Panef Mfg Co.

Hill & Griffith Co 1262 State St. Cincinnati 4

Ohlo

Kant Rust—See Boyle-Midway. Inc.

Hill & Griffith Co 1262 State St Cincinnati 4 Ohio
Kant Rust—See Boyle-Midway, Inc.
Lub-A-Spray—See Panef Mfg Co
M-M-A Inc Coho Bidg Lancaster Pa "Spritzit"
Mexican—See United States Granhite Co.
Motorflake—See Superior Graphite Co
Oildag—See Acheson Colloids Co.
Panef Mfg Co 102 E Walnut St Milwaukee
1 Wis "Lub-A-Spray" "Graph-A-Cator"
Petco—See George F Pettinois Inc
Pettinois Inc George F 1206 Locust St Philadelphia 7 Pa "Petco"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Blaco"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Blaco"
Superflake—See Superior Graphite Co
Spritzit—See M-M-A Inc
Superflake—See Superior Graphite Co
Superior Graphite Co 1621 Holland Ave
Saginaw Mich "Mexican"
RAPHITE PAINTS—See Paints, Graphite

GRAPHITE PAINTS-See Paints, Graphite

GREASE

Dow Corning Corp Midland Mich Standard Oil Co (Indiana) 910 S Michigan Ave Chicago 80 III

GREASE CUPS-See Cups, Oil and Grease GREASE GUNS, HAND-See Lubricators,

GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE—See Lubricators, Portable, High Pressure

GREASE AND OIL ABSORBENTS (FLOOR)
—See Absorbents, Oil and Grease (Floor) GREASE RETAINERS—See Rings & Seals, Oll & Grease Retaining

GRILLES Radiator

Ainsworth-Precision Castings Co Div of Harsco Corp 2200 Guardian Bldg Detroit 26 Mich (To order) Auto-Lite—See Electro Auto-Lite Co

See Electro Auto-Lite Co Grille Co 2111 S Michigan St Auto-Lite—See Electro Auto-Lite Co Automotive Grille Co 2111 S Michigan St Chicago III Cutler Metal Products Co 1025 Line St Cam- GRINDERS, Portable Electric Cutler

Cutler Metal Products Co 1025 Line St Camden N J
Detroit Grille Mfg Co 258 E Vernor Highway, Detroit 1, Mich
Doehler Die-Casting Co 386 Fourth Ave
New York N Y
Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Lite"
Excel Corp 1120 N Main St Elkhart Ind
"XL"

Jacobs Co F L 1043 Spruce St Detroit 1 Mich

Mirro Aluminum Co Manitowoc Wis Saginaw Industries Co 2119 S Jefferson Ave Saginaw Mich (For Ford and Chevrolet cars) Standard Products Co 2130 W 110th St Cleveland 2 Ohio

L—See Excel Corp
enite Metal Corp 201 N West St Indianapolis 7 Ind

GRINDERS

See following heads:

Grinders

Machines, Flexible Shaft (Portable Electric)

Machines, Glass Beveling and Grinding

Machines, Grinding

Machines, Grinding & Polishing Machines, Grinding (Tool) Machines, Honing Machines, Superfinishing

GRINDERS, Bench (Electric)

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sloux"

Atlas Press Co 1842 N Pitcher St Kalama-zoo Mich Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo

10 Mo
Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Blount Co J G 19 Woodland St Everett 49
Mass
Blue Point—See Snap-On Tools Corp
Bradford Machine Tool Co 722 Porter St
Lansing 6 Mich "Metalmaster"
Cincinnat Electrical Tool Co 300 Mt Hope

Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio Delta-Rockwell—See Rockwell Mfg Co Dumore Co 1306 17th St Hacine Wishammond Machinery Builders ine 1621 Douglas Ave Kalamasoo 54 Mich Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio "Hisey" K.R.W.—See K. R. Wilson.

Metalmaster—See Bradford Machine Tool Co.

Co.

Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co 5356 W State
8t Milwaukee & Wis
Pet—See Portable Electric Tools Inc
Portable Electric Tools Inc 320 W 82rd 8t
Chicago 20 Ill "Pet"
Prosser & Son Thomas Felter Bidg Tenafly
N J
Reminator & Tools Co.

Remington Arms Co 939 Barnum Ave Bridge-

Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Richards Co J A 903 N Pitcher St Kalamazoo
Mich (Diemaker's)
Rockweil Mfg Co Delta Power Tool Div
400 N Lexington Ave Pittaburgh 8 Pa
"Delta-Rockweil"
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Sloux—See Albertson & Co.
Snap-On Tools Corp 8046 28th Ave Kenosha
Wis "Blue Point"
Skil Corp 5033 Elston Ave Chicago Ill "SkilGrinder"
SneedWay Mfg Co 1421 Barnsdale Rd La

Skil Corp 5033 Eleton Ave Chicago Ill "SkilGrinder"

SpeedWay Mfg Co 1421 Barnsdale Rd La
Grange Park Ill "Thor Speed Grinders"

Standard Electrical Tool Co Mt Hope &
River Rd Cincinnati 4 Ohio

Stanley Electric Tool Div. of Stanley Worka,
480 Mvrlie St., New Britain, Conn.

Thor Power Tool Co 175 State St Aurora Ill
Thor Speed Grinders—See SpeedWay Mfg Co
United States Electrical Tool Co 3620
Liewelyn St Cincinnati Il Ohio
Valley Electric Corp., 4221 Forest Park
Blvd., R Louis, Mrg Co 400 N
Lexington Ave Pittsburgh 8 Pa
Wickman Mfg Co 10326 Capitol Ave Oak
Wickman Mfg Co 10326 Capitol Ave Oak
Wickman Mfg Co 10326 Capitol Ave Oak
Wisaota Mfg Co 1301 S 3rd St Minneapolis
Minn

Grander

GRINDERS, Die (Portable Electric)

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md Rotor Tool Co 23600 Lakeland Blvd Cleve-land 32 Ohio

(See also Machines, Flexible Shaft Portable Clectric)

Albertson & Co., 2100 Lowell Ave., Sloux City, Iowa. "Sloux."
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike Dayton 2 Ohio

Dayton 9 Onlo
Chicago Pneumatic Tool Co 6 E 44th St
New York N Y "Universal" "Hicycle"
"Supercycle"
Chicago Wheel & Mfg. Co., 1101 W. Monroe

Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.

Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Tool."

Dumore Co 1300 17th St Racine Wis. Hicycle—See Chicago Pneumatic Tool Co. Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.

Millers Falls Co Greenfield Mass.

Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.

Moto-Tool—See Dremel Mfg. Co.

Precise Products Corp 2715 Blue Ribbon Rd.

Precise Products Corp \$715 Blue Ribbon Rd Racine Wis

Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohio

Sioux—See Albertson & Co Skil Corp 5033 Elston Ave Chicago III "Skil Grinder"

SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park III "Thor SpeedGrinders" Speedway and Grange Park III "Thor SpeedGrinders"
Stanley Electric Tools Div of Stanley Works
480 Myrtle St New Britain Conn

Supercycle—See Chicago Pneumatic Tool Co Thor Power Tool Co 175 State St Aurora III Thor SpeedGrinders—See SpeedWay Mfg Co United States Electrical Tool Co 1050 Findlay St Cincinnati 14 Ohio

Universal-See Chicago Pneumatic Tool Co.

GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio. Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio

CP-See Chicago Pneumatic Tool Co. Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."

Ingersoll-Rand Co 11 Broadway New York 4

Keller Tool Div Gardner Denver Co 4333 Ful-ton St Grand Haven Mich Kip—See Madison-Kipp Corp.

Kip—See Madison-Kipp Corp.

Madison-Kipp Corp., 201 Waubesa St., Madison, Wis. "Kip."

Master Pneumatic Tool Co Krick Rd Bedford O "Master Power"

Onsrud Machine Works Inc Machine Tool Div 7720 N Lehigh Ave Niles III

Rotor Tool Co 22600 Lakeland Ave Cleveland

32 Ohis

Skil Corp 5033 Elston Ave Chicago III "Skil-Grinder" Thor Power Tool Co 175 State St Aurora Ill

Watervliet Tool Co 1346 Broadway, Albany 4

GRINDERS, Valve Seat (Production Type)

Hall-Toledo Inc 2931 South St Toledo 9 Ohio

GRINDING EQUIPMENT

See following heads: Centers, Lathe and Grinder Discs, Abrasive Grinding Machines, Flexible Shaft (Portable Electric) Spindles, Drilling and Grinding Machine Wheels, Grinding GRIPS, PEDAL-See Pads, Petal

Angular—See Pittsburgh Crushed Steel Co Cleveland Metal Abrasive Co 887 E 67th St Cleveland 3 Ohio "20th Century" (Iron and

Globe Steel Abrasive Co 238 First Ave Mans-field Ohio "Globe" (Chilled iron; "Mallea-brasive" heat treated)

Harrison-See Metals Disintegrating Co

GRIT (Shot)-continued

Malleabrasive-See Globe Steel Abrasive Co alleabrasive—See Globe Steel Abrasive Coletais Disintegrating Co., Box 290, Elizabeth B N J "Harrison" (Cast iron) angborn Corp 200 Pangborn Blvd Hagers-

Deln B and the particular of t

Stevens Inc Frederic B 1800 18th St Detroit 16 Mich 20th Century—See Cleveland Metal Abrasive Co

Wheelabrator Corp 402 Byrkit St Misha-waka Ind "Steeletts" & "Wheelabrator" (Steel)

GROMMETS, Rubber

Accurate Products Inc 135 N Spring St Indianapolis Ind Aucurate Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic." Armor-Flex—See Doan Mfg Div Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill Canfield Co H O 191 Housatonic Ave Bridge-port 1 Conn

Continental Rubber Works 1946 Liberty St

Continental Rubber Works 1946 Liberty St. Erie Pa.
Cooper Tire & Rubber Co., Lima & Western Aves., Findiay, Ohio.
Doan Mfg Div of Anchor Industries Inc 1725
London Rd Cleveland 12 Ohio "Armor-

Flex's Co Holland Mich Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio Garlock Packing Co., 402 Main St., Palmyra,

N. Y. Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Goshen Rubber Co 609 E Iowa St Goshen

Ind
Johnson Rubber Co Middlefield Ohio
KM-See Kravex Mfg Corp
Kravex Mfg Corp 634 Prospect Pl Brooklyn
N Y "KM"
Kuehn Co N L 1053 N 4th St Milwaukee 3

Wis
Lightnin—See R J Loock & Co
Loock & Co R J 343 N Gay St Baltimore Md
"Lightnin"
Minnesota Rubber Co 3630 Woodale Ave St
Louis Fark Minneapolis 16 Minn
Ohio Rubber Co., 300 Ben Hur Ave.,
Willoughby, Ohio. "Orco."
Orco—See Ohio Rubber Co.
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Raybestos—Manhattan Inc Equip Sales Div
Stratford Conn "R/M"
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio. Rubber Corp. Allen Ave.

Roberts Toledo Rubber
Toledo 13 Ohio
Rodic Chemicai & Rubber Corp Allen Ave.
New Brunswick N J
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Steelastic—See Anchor Rubber Products, Inc.
Steelastic—See Anchor Rubber Rubber Co., Rockefeller CenWar York

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

GROOVING MACHINES, OIL—See Machines, Oil Grooving

GUARDS, Bumper

Brown-Lipe-Chapin Div General Motors Corp Town Line Rd Syracuse N Y Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass. Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass. Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio Gem Mfg Co 2535 S State St Chicago 16 Ill Hamilin Metal Products Co 2741 Wingate Ave Akron 19 Ohio Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich

Mich.
Rheem Automotive Co 601 S Placentia Ave Fullerton Calif

GUARDS, Fender Splash

Ace Rubber Products Inc 100 Beech St Akron Ohio Rubber Mfg Co 115 Meade St Tren-

Acme Rubber and ton N J Akro-See Buxbaum Co Anchor Rubber Products Inc 1725 London Rd Cleveland 12 Ohio "Tuftex" Armor-Flex—See Doan Mfg Div of Anchor Armor-Flex—See Doan Mfg Div of Anchor St Minne-

Industries Inc
Bermo Industries Inc 216 W 86th St Minneapolis Minn
Better Monkey Grip Co 5320 Harry Hines
Blvd Dallas 22 Tex "Monkey Grip" (Truck;
sole distributors Monkey Grip Sales Co 5320
Harry Hines Blvd Dallas 22 Tex)
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio
Buxbaum Co 1212 7th St S W Canton 1 Ohio
"Akro"

COT—See Tingley Rubber Co
Continental Rubber Works 1946 Liberty St
Erie Pa "Vitalic"
Contour Truck Guards Inc 38 S Dearborn
St Chicago 3 Ill "Flexi-Fend" "Safe Gard"
Dallas Mfg & Sales Co P O Box 7181 Dallas
Tex "Guard-A"

Dailas Mfg & Sales Co P O Box 7181 Dailas Tex "Guard-A" Detroit Grille Mfg Co 258 E Vernor Hwy Detroit 1 Mfch "Duo-Loc" Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex" (Truck)
Duo-Loc—See Detroit Grille Mfg Co Fargo Rubber Corp 137 E 58th St Los Angeles 11 Calif (Truck)
Flexi-Fend—See Contour Truck Guards Inc Fruchauf Trailer Co 10940 Harper Ave Detroit 32 Mich.
Gates Rubber Co 399 S Broadway Denver 17 Co.o "Gates Vulco" Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Gross Mfg Co 1711 California St Monrovia

Main St Akron 18 Ohio Gross Mfg Co 1711 California St Monrovia Calif

Gross Mfg Co 1711 California St Monrovia Calif Guard-A—See Dallas Mfg & Sales Co Haywood Industries P O Box 1004 Dayton 1 Ohio "Modac" Lee Rubber & Tire Corp Conshohocken Pa Miller Rubber Co Div of H F Goodrich Co 500 S Main St Akron Ohio (Truck and trailer) Modac—See Haywood Industries Monkey Grip—See Better Monkey Grip Co Quadrant—See Tingley Rubber Corp Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio Regal Motor Products Inc 6325 Grand River Ave Detroit & Mich Safe Gard—See Contour Truck Guards Inc Sunal Mfg. Co., 69 Bennett St., Lynn, Mass. Tingley Rubber Corp 303 Ross St Rahway N J "COT" "Quadrant" "Tingley" "Vise-Grip"

N J "Grip" Tuftex—See Anchor Rubber Products Inc eGrip—See Tingley Rubber Corp alic—See Continental Rubber Works

GUARDS, Radiator Grille, Fender and Trunk

American Forging & Socket Co P O Box 120
Pontiac Mich (Radiator grille)
Bustin Steel Products Inc Dover NJ (Truck

radiator)
Calco Steel Products Co 28-29 New England Calco Steel Products Co 23-29 New England
Ave Dorchester 24 Mass (Grille for trucks)
Champion Sheet Metal Co 2 Squires St Cortland N Y (Radiator grille to order)
Glehner Iron Works Inc Fred S 1214 24th St
NW Washington 7 D C
Hamlin Metal Products Co 2741 Wingate Ave
Akron 19 Ohio (Radiator grille and trunk)
Helms Industrial Development Co 220 S Kirk
St West Lafayette Ohio

St West Lafayette Ohio
Hutchinson Co., 5931 St. Vincents
Shreveport, La. "Redi-Fit." (Gril

trucks.)
Redi-Fit.—See Hutchinson Co.
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13

Wis oungstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio (Truck and tractor)

GUIDES, Valve (Engine)

Accurate Products Inc 135 N Spring St Indianapolis Ind
Aero Mfg & Machinery Co 2724 Ninth St
Muskegon Heights Mich
Aluminum Industries Inc 2670 Werk Rd Cin-

cinnati 11 Ohio

American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio

Beckett Bronze Co 20th & S Wainut Sts Muncle Ind (Bronze) Burd Piston Ring Co Box 567 Eau Claire Wis Elgin Machine Works, 412 N. State St., Elgin

Ertel Mfg Co 2045 Martindale Ave Indian-apolis 7 Ind apolis 7 Ind apolis 7 Ind Ertel Products Co Repl Div of Ertel Mfg Corp 1402 E 20th St Indianapolis 7 Ind Hub City Iron Co 218 First Ave S W Aber-deen S D

deen S D
international Parts Corp., lith & State Sts.,
Chicago 5. lil.
McQuay-Norris Mfg Co., 2320 Marconi St.,
St. Louis. Mo.

National—See When Parts & Mfg Co Perfect Parts Inc 41 W 23rd St New York 10 N Y

N T
RMC—See Rich Mfg Corp
Rich Mfg Corp 96 N Division St Battle Creek
Mich "RMC"

Mich "RMC"
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Standard Automotive Parts Co 660 Nims St
Muskegon Mich
Superior—See White Machine Works.

nompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio

Products Div Thompson Prod-Toledo Steel Products Div Thompson Prod-ucts Inc 6402 Cedar Rd Cleveland 3 Ohio Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National" White Machine Works, 1401 Bellevue Ave. Eau Claire, Wis. "Superior." Wolverine Gear & Parts Co Osseo Mich Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich (For Ford cars) Steel

GUNS—See Blast Cleaning Apparatus; Lubri-cators; Nozzles, Air; also Sprayers

GUN METAL FINISH-See Treating, Heat HACK SAWS, FRAMES AND BLADES—See Blades, Saw (Hack); Machines, Sawing (Power Hack); also Saws and Cutters, Hole or Rotary

HAIR FELT FLOOR PADS-See Pads, Floor (Felt, Jute, etc.)

HAIR, Upholstery

(See also Moss, Upholstery; also Felt, Upholstery)

Opholstery)

Armour & Co Cushioning Products Div & Coated Abrasives Div N Benton St Alliance Ohio "Hairflex" (Curled and rubberized)
Burkart Mrg Co F Div of Textron Inc 4900
N Second St St Louis 7 Mo
Goodrich Sponge Products B F Howe Ave Shelton Conn "Texlite"
Gordon Bros., Inc., Pierce & Orthodox Sts., (Frankford), Philadelphia, Pa. (Also rubberized curled hair.)
Hairflex—See Armour & Co

perized curied hair.)
Hairfiex-See Armour & Co
Texilite—See B F Goodrich Sponge Products
Vitacurid—See F. P. Woll & Co.
Woll & Co., F. P., Church & Tacony Sts.,
(Frankford), Philadelphia 24, Pa. "Vitacurid," Curied; "Wollastic," rubberized
curied)

Wollastic-See F. P. Woll & Co.

HAMMERS, COPPER-See Hammers, Soft Face

HAMMERS. DROP-See Hamniers Power (Belt and Motor Driven)

HAMMERS, Pneumatic

Ceco-Drop-See Chambersburg Engineering

Chambersburg Engineering Co Derbyshire St Chambersburg Pa "Ceco-Drop" "Im-

St. Chambersourg Fa "Ceco-Drop" "Impacter" Erie Foundry Co. 1253 W. 12th St., Erie, Palmpacter—See Chambersourg Engrg Co. Ingersoil-Rand Co 11 Broadway New York 4 N Y

N Y
Keller Tool Div Gardner Denver Co 1233
Fulton St Grand Haven Mich
Master Pneumatic Tool Co Krick Rd Bedford
Ohio "Master Power" (Portable)
Master Power—See Master Pneumatic Tool

Co
Mead Specialities Co 4114 N Knox Ave Chicago 41 III
Nazel—See United Engrg & Fdry Co
Superior Pneumatic & Mfg Inc 4758 Warner
Rd Cleveland 25 Ohio 15 State St Aurora III
United Engrg & Fdry Co Wilmington Plant
P O Box 1108 Wilmington 19 Del "Nazel"
Watervilet Tool Co 1346 Broadway Albany 4
N Y
Watervilet Tool Co 1346 Broadway Albany 4
N Y liams White & Co 100 Eighth St Moline

HAMMERS, Portable Electric

AMMERS, Pottable Electric
Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co 5350 W State St
Milwaukee & Wis
Stanley Electric Tool Div. of Stanley Works
480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer
City. Pa.

Syntron Co., 495 N. Lexington Ave., Homer City. Pa. Thor Power Tool Co 175 State St Aurora III "Thor-Nado"

HAMMERS, Power (Belt and Motor Driven)

Billings & Spencer Co. 1 Laurel St., Hartford 1, Conn.
Bradley & Sons Div Harsco Corp C C 27
Huntington St Cortland N Y (Forging)
Chambersburg Engineering Co., Derbyshire
St., Chambersburg, Pa.
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
"Hercules."

Erie Foundry Co. 1253 W. 12th St., Erie, Pa. Hercules—See Champion Blower & Forge Yoder Co 5553 Walworth Ave Cleveland 3 Ohio HAMMERS, RIVETING-See Machines, Riveting (Metal)

HAMMERS, Soft Face

(Including brass, copper, rubber, etc., for use on finished surfaces) Basa-See Greene, Tweed & Co Blackhawk-See New Britain Machine Co Blackhawk—See New Britain Machine Co Blue Point—See Sinap-On Tools Corp. Buckeye Rubber Products Inc \$37 N Jackson St Lima Onio (Rubber mailets) Chicago Rawhide Mfg Co 1301 Elston Ave Chicago 22 Ill (Rawhide) Continental Rubber Works 1946 Liberty St Erla Pa

Erie Pa
Divco—See Division Lead Co.
Division Lead Co 7742 W 61st Pi Summit III
"Divco" (Lead and babbitt)
Dixon Inc William 32-42 B Kinney St Newark 1 N J
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, III. "Durolite."
Electric Materials Co Clay & Washington
Sts North East Pa (Brass and copper)
Empire—See Greene, Tweed o Co.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y (Lead babbitt
copper rubber etc)
Goodyear Tire & Rubber Co., E. Market St.
Goodyear Tire & Rubber Co., E. Market St.
Akron 16, Ohlo.

"Transue & Williams Steel Forging Corp 562
Ely St Alliance Ohlo

"ARD FACING ALLOYS—See Alloys, Hard
Facing
ARD RUBBER—See Rubber, Hard
HARDENING COMPOUNDS—See Compounds,
Case Hardening
HARDENING, METAL—See Treating, Heat
ing (Metal)

HARDNESS TESTERS—See Machines, Testing (Metal)

HARDWARE, Automobile and Truck
Body

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohlo. Greene Tweed & Co North Wales Pa "Basa" "Empire" (Plastics and rawhide) Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohlo. "Her-brand." "Van Chrome." Indestro Mfg Co 2649 N Kildare Ave Chi-

brand," "Van Chrome."
Indestro Mfg Co 2649 N Kildare Ave Chicago Ill
Kaniot Mfg. Co., 3927 N. Kedzie Ave., Chicago Ill
Kaniot Mfg. Co., 3927 N. Kedzie Ave., Chicago Ill
Kennedy Service Tools Co 788 Evans Ave
Akron 5 Ohio (Rubber mallets)
Ken-Tool Mfg Co 768 E North St Akron 6
Ohio (Rubber)
Lightnin—See R. J. Loock & Co.
Loock & Co., R. J., 343 N. Gay St., Baltimore,
Md. "Lightnin." (Rubber mallets.)
Martindale Electric Co., 1340 Hird Ave.,
Cleveland 7, Ohio. (Rawhide.)
Matticks Mfg Co 4156 E Pacific Way Los
Angeles 23 Calif (Plastic copper brass lead
fibre and vinyl)
Millers Fulls Co., Greenfield, Mass. (Brass.)
New Britain Machine Co Hand Tool Div
South St New Britain Conn "Blackhawk"
& "New Britain"
Nicholson File Co 23 Acorn St Providence I
R I
Nunls Mfg. Co. Div of New Plastic Corp. 1026

Nupla Mfg Co Div of New Plastic Corp 1026 N Sycamore St Los Angeles 18 Calif "Nupla"

"Nuple"
OTC—See Owatonna Tool Co
Owatonna Tool Co 342 N Cedar St Owatonna
Minn "OTC"
Minn "OTC"
Mon Co Box 5926 Milwaukee Ore

watonna Tool Co eta Min "OTC"

& C Tool Co Box 5926 Milwaukee Ore (Rubber mallets)
roto Tools 2209 Santa Fe Ave Los Angeles

Calif
Richards Co J A 903 N Pitcher St Kalamazoo
Mich (Rubber mallets)
Snap-On Tools Corp., 8046 28th Ave.,
Kenosha, Wis. "Blue Point." (Ball pein.)
Snyder & Son Inc 1827 E York St Philadelphia 25 Pa "Snyder Standard" (Rubber)
Stanley Tools, 111 Elm St., New Britain.

Conn.
Tingley-Reliance Rubber Co 903 Ross St
Rahway N J (Rubber mailets)
Trimo—See Trimont Mfz Co
Trimont Mfz Co Div of St Pierre Chain Corp
50 Frank St Worcester 4 Mass "Trimo"
Univertical Fdry & Machine Co 1841 Meyers
Rd Detroit 27 Mich
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic mailets.)
Van Chrome—See Herbrand Div., BinghamHerbrand Corp.
Williams & Co J H 400 Vulcan St Buffalo 7
N Y

Zoerman-Clark Mfg Co 624 N Mechanic St

Jackson Mich HAMMERS. Steam

Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa. Erie Foundry Co., 1253 W. 12th St., Erie, Pa.

HANDLES. Car Door

Cleveland—See H K Porter Co
DMP—See Detroit Master Products Co
Decker Co Richard M 919 N Michigan Ave
Chicago III (Truck and house trailer)
Detroit Master Products Co 16490 Woodward
Ave Detroit 3 Mich "DMF" (Locking and
non-locking for truck bodies)
Eberhard Mfg Co Div Eastern Malbable Iron
Co 2734 Tennyson Rd Cleveland 4 Objo
(Truck bus and trailer)

Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, III. (Commercial body.) Porter Co H K Forge & Fittings Div Cleve-land Forge Works 3200 E 79th St Cleve-land 4 N Y "Cleveland" Regal Motor Products Inc 6325 Grand River

Mich

HANGERS, Step (Pressed Steel)

(Pressed steel step or running board hangers or brackets; for forged hangers-see Forgings)

-Titchener Corp., 115 Pt. Watson St., Cortland, N.Y.
Transue & Willams Steel Forging Corp 567 HEADS, Boring
Ely St Alliance Ohio

Body

Gody
(For bus hardware—see Fittings, Bus;
see also Forgings)
Adams & Westlake Co 1019 N Michigan St
Elkhart Ind (Auto, truck and bus)
American Forging & Socket Co., P. O. Box
120. Pontiac, Mich. (Hood locks, etc.)
Attwood Brass Works Inc 303 Douglas St

120. Pontiac. Mich. (Hood locks, etc.)
Attwood Brass Works Inc. 303. Douglas St.
NW Grand Rapids Mich (Also funeral carbus taxicab etc.)
Atwood Vacuum Machine Co 1400 Eddy Ave
Rockford III (Including locks and hinges)
Auto-Lite-See Electric Auto-Lite Co
Auto Vehicle Parts Co 1032 Saratoga St.
Newport 6 Ky
Binkley Mfg Co Warrenton Mo (Hinges)

Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky Binkley Mfg Co Warrenton Mo (Hinges brackets etc) Bordner Mfg Co 101 S Louis Ave Freeport III (Refrigerator truck hody) Bowen Products Corp Auburn N Y Chicago Lock Co 2024 N Racine Ave Chicago 14 III (Hood locks)

Cinch Mfg. Co., 1026 S. Homan St., Chicago

24 111 Cleveland—See H K Porter Co Croname Inc \$217 Howard St Chicago 48 III (Decorative trim) DMP—See Detroit Master Products Co Decker Co Richard M 919 N Michigan Ave Chicago III (Door latches for trucks and

house trailers)
Detroit Harvester Co., Dura Div., 4500
Detroit Ave. Toledo. Ohio.
Detroit Master Products Co 16490 Woodward
Ave Detroit 3 Mich "DMP" (Truck body)
Eberhard Mfg Co Div Eastern Malleable Iron
(Co 2734 Tennyson Rd Cleveland 4 Ohio
(Truck body)

(Truck body)
lectric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Ferro Stamping Co 1367 Franklin St Detroit 7 Mich Hansen Mfg Co A L 5037 Ravenswood Ave Chicaro 40 III (Commercial body and bust Hartwell Aviation Supply Co 9035 Venice Blyd Loe Angeles 34 Calif (Flush latches) Jacobs Co F L 1043 Spruce St Detroit 22 Mich Kason Hardware Corp 71 Wallabout St Brooklyn 11 N Y (Truck body)
Kneuer Tail Bosard Co 45 Sea Girt Ave Manasquan N J (Spaceless tailboard hardware)

Mich Miner Inc W H 209 S La Salle St Chicago 4 Ill (Door fasteners for truck and trailer

Polar Hardware Mfg Co 3822 Lawrence Ave Chicago 25 Ill (For refrigerated trucks and trailers)
orter Co H K Forge & Fittings Div Cleve-land Forge Works 3200 E 79th St Cleveland

4 Ohio "Cleveland"
Protectoseal Co., 1920 S. Western Ave., Chicago S. III, (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sta., Cincinnati 26, Ohio.
Rockford Metal Products Inc 716 Cedar St

Rockford III
Servwell Products Co., 6519 Euclid Ave.,
Cleveland 3, Ohio. (Fender braces.)
Some Mfg. Co., 21777 Hoover Rd., Detroit 13.

Standard Products Co 2130 W 110th St Cleve-

land 2 Ohio
Sanley Works (Pressed Metal Div.), 195
'Lake St., New Britain, Conn.
Stant Mfg. Co., 1620 Columbia St., Connergville, Ind. Tomnkins H S 188 Chambers St New York 7

Wagner Mfg Co 122 W First St Cedar Falls Iowa (Truck body irons brackets and

hinges)
ale & Towne Mfg. Co., 200 Henry St.,
Stamford, Conn.

HEADLIGHT BEAM CONTROLS (Automatic)
—See Controls, Headlamp Beam (Automatic) HEADLIGHT GASKETS (Cork)-See Gaskets,

HEADLIGHTS-See Lamps, Head

HEAD LINING CLOTH-See Linings, Head LINING RETAINERS-See Retainers. Headlining

Briney Mfg Co 1165 Seba Rd Pontiac Mich BulDog—See Mummert-Dixon Co Casier—See Oneida Machine Tool Corp Chandler Tool Co 514 Ohlo Ave Muncle Ind "Duplex" (Combination boring and fac-

ing)
Davis Boring Tool Div. of Giddings & Lewis
Machine Tool Co., 475 S. Seymour St.,
Fond du Lac, Wis.
Deka-Bore—See Precision Tool & Mfg Co of

Illinois

Duplex-See Chandler Tool Co

E-Z-See Maxwell Co.
Ferry Machine Co P O Box 299 Kent Ohio
Gairing Tool Co 21221 Hoover Rd Detroit 82

Heald Machine Co 10 New Bond St Worces-ter 6 Mass "Heald Red Head"

ATTENTION TRUCK BODY MANUFACTURERS

- MANUFACTURING LOCKING AND NON LOCKING HANDLES
- SPECIALIZING IN KEYING HANDLES IN SETS TO MATCH IGNITION CYLINDER OR ANY KEY COMBINATION FOR YOUR REQUIREMENTS

DETROIT MASTER PRODUCTS CO.

16490 WOODWARD

DETROIT 3. MICH.

Circle 233 on Inquiry Card for more data

ATTWOOD

PRECISION HARDWARE AND FITTINGS

Busses **Funeral Cars** Marine and Taxicabs Tank and Radiator Fittings Cadmium-Nickel

Chrome Plating

for:

Our many years of precision metalworking is your assurance of highest quality hardware and fittings made to the exact specifications of your samples or blueprints.

Write for catalog.



Circle 234 on Inquiry Card for more data

HEADS, Boring-continued

Hoefer Mfg. Co., Chicago & Jackson Sts., Freeport, Ill. Hole Hog-See Moline Tool Co Ingersoll Milling Machine Co Rockford Ill Lovejoy Tool Co., 133 Main St., Springfield,

McCrosky Tool Corp., S. Main St., Meadville,

Pa. Mastur—See Maxwell Co.
Maxwell Co. 493 E Fifth St Ashtabula Ohio
"E-Z" "Mastur"
Moline Tool Co 102 20th St Moline Ill "Hole
Hog"

Hog Hog"

Mummert-Dixon Co Philadelphia & Gay Sts
Hanover Pa "BulDog," "Quick Acting"

O K Tool Co Milford N H
Oneida Machine Tool Corp 2600 E Walnut St
Oneida N Y "Casler"

Precision Tool & Mfg Co of Illinois 1305 S
Laramie Ave Cicero 50 Ill "Deka-Bore"
Quick-Acting—See Mummert-Dixon Co.
R-S—See Rickert-Shafer Co.
Rickert-Shafer Co.
Rickert-Shafer Co 613 W 11th St Erie Pa
"R-S"

HEADS, Cylinder

Alcoa-See Aluminum Co. of America.
Almquist Engrg Co Milford Pa
Aluminum Co. of America 1501 Alcoa Bid.
Pittsburgh 19 Pa "Alcoa" (Aluminum alloy
Continental Motors Corp., Muskegon 82 Muskegon 82

Mich.
Detroit Gasket & Mig. Co., 12640 Burt Rd.,
Detroit 22, Mich. "Steelbestos."
Edelbrock Equipment Co 4921 W Jefferson
Blvd Los Angeles 15 Calif
Permold Co., 820 W. Liberty St., Medina,

Permold Co., \$20 W. Liberty St., Medina, Ohio. (Aluminum)
Steelbestos—See Detroit Gasket & Mfg. Co Weland Power & Racing Equip 2733 San Fernando Rd Los Angeles 65 Calif (For Ford and Mercury cars)
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

HEADS, Dividing

HEADS, Dividing

Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.

Burke—See U S-Burke Machine Tool Div
Griswold Co F T Lancaster Pike Wayne Pa
"OPL" (Optically controlled)
Hartford Special Machinery Co
stead Ave Hartford 12 Conn
Kempsmith Machiner Co., 1819 S. 71st St.,
Weat Allis 14, Wis.
Knight Machinery Co., W. B., 2920 W. Pine
St., St. Louis S. Mo.
OPL—See F. T. Griswold Co.
Panto—See H P Preis Engraving Machiner
Co

HEATERS, Aircraft
Surface Combustion Corp Janitrol Aircraft
Div 4200 Surface Rd Columbus 4 Ohio
Trailer
Arvin Industries Inc 13th St & Big Four RR
Columbus Ind (Hot water and hot air)
Auto Radiator Mfg. Co., 2901 Indiana Ave..
Chicago, Ill. "Eureka." (Hot water.)
Bishop & Babcock Mfg. Co., 4901 Hamilton
Ave., N. E., Cleveland 14, Ohio. (Hot water.)

Co
Preis Engraving Machine Co H P 647 Highway 22 Hillside N J "Panto"
Taft-Peirce Mfg Co 32 Mechanic St Woonsocket H I
U S-Burke Machine Tool Div Cincinnati
Mfg Corp Brotherton Rd Cincinnati 27
Ohio "Burke"

Ohio "Burke"

HEADS, Drilling

Barnes Drill Co., 826 Chestnut St., Rockford, Ill. "Barnesdril."

Bellows Co. 222 W Market St Akron 9 Ohio Bradford Machine Tool Co 722 Porter St Lansing 5 Mich (Automatic)

Burke Machine Tool Co Brotherton Rd Cincinnati 27 Ohio

Commander Mfg Co 4225 W Kinzie St Chicago 74 Ill (Adjustable)

Dumore Co 1300 17th St Racine Wis

Errington Mechanical Laboratory Inc 24

Norwood Ave Stapleton S 14 N Y (Multiple spindle)

Govro-Nelson Co., 1931 Antoinette St., Detroit 8, Mich.

Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn

Hoefer Mfg. Co., Chicago & Jackson Sts., Freeport, Ill. (Multiple spindle.)

Jarvis Corp Middetown Conn (Multiple spindle)

Kingsbury Machine Tool Corp Laurel St

spindle)

Jarvis Corp Middletown Conn (Multiple spindle)
Kingsbury Machine Tool Corp Laurel St Keene N H (Automatic)
Lamb Co F Jos 5663 B Nine Mile Rd Detroit 34 Mich Michigan Drill Head Co 11449 Timken Ave Van Dyke Mich Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio Potter & Johnston Co 1027 Newport Ave Pawtucket R I Root Co., B. M., Prospect & Sherman Sts., York, Pa.
Thomson Industries Inc 1029 Plandome Rd Manhasset N Y "Thriftmaster"
Thriftmaster—See Thomson Industries Inc United States Drill Head Co., 616 Burns St., Cincinnati 4, Ohio, (Multiple spindle.)
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 3 Pa Zagar Tool Inc 24000 Lakeland Bivd Cleveland 23 Ohio (Gearless)

HEADS, Tapping

Burg Tool Mfg Co 15001 S Figueroa St Los Angeles Calif "Burgmaster" Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y (Multiple spindle)

Govro-Nelson Co 1931 Antoinette St De-troit 8 Mich Hoefer Mfg Co Chicago & Jackson Sts Free-

Jarvis Corp Middletown Conn (Multiple spindle)

spindle)
Kingsbury Machine Tool Corp Laurei St
Keene N H (Automatic)
Michigan Drill Head Co 11449 Timken Ave
Van Dyke Mich
Procunier Safety Chuck Co., 18 S., Clinton
St., Chicago 6, Ill.
Snow Mfg. Co., 435 Eastern Ave., Eellwood,
Ill

Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich

HEAT EXCHANGERS—See Exchangers, Heat
HEAT INDICATING GAGES, Water—See
Gages, Water Temperature Indicating
HEAT TRANSFER EQUIPMENT—See Exchangers, Heat; also intercoolers; also Heaters, Factory, etc.; also Radiators, Engine
Cooling; also Regulators, Oil Temperature
HEAT TREATING—See Treating, Heat
HEAT TREATING COMPOUNDS—See Compounds, Heat Treating
HEAT TREATING FURNACES—See Fur-

pounds, Heat Treating
HEAT TREATING FURNACES—See Furnaces, Heat Treating
HEAT TREATING MACHINES—See Machines, Heat Treating
HEATER EQUIPMENT—See Blowers, Heater
(Auto): also Motors, Electric Automotive
Use (FHP): also Parts and Fittings, Heater;
also Switches, Heater; also Thermostats, Heater

HEATERS, Aircraft

Arvin Industries Inc 13th St & Big Four RR Columbus Ind (Hot water and hot air) Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Hot water.) Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio. (Hot water.)

Briggs-See Huppower Div

Cargo Guard Co P O Box 1977 Thompson's Point Portland 2 Maine (LP-Gas for cargo) Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)

Chicago. Ill. (Hot water.)
EA—See Huppower Div
Eaton Mfg Co Heater Div E 65th St &
Central Ave Cleveland Ohio (Hot water)

Eureka—See Auto Radiator Mfg. Co.

Evans Products Co 13101 Eckles Rd Plymouth Mich (Hot water for trucks and buses: also heating and ventilating systems for trucks and buses)

Gabriel—See Huppower Div HaDees—See Huppower Div

HaDees—See Huppower Div. General Motors Corp., Washburn & Wainut Sts., Lockport, N. Y. (Hot water.)
Hunter Mfg Co 30525 Aurora Rd Solon Ohio (Gasoline burning)
Huppower Div Hupp Corp 7450 Melville St Detroit 17 Mich "EA" "Briggs" "Gabriel" "HaDees" "Redhead" Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water for truck and bus.)
Laharco Industries Inc 721 Second Ave N Minneapolis 5 Minn "Temp-R-izer" (Cargo)
Novi Equipment Co., Novi. Mich. (Hot

Equipment Co., Novi, Mich. (Hot

Perfection Industries Div of Hupp Corp 1185 Ivanhoe Rd Cleveland 10 Ohio Redhead—See Huppower Div Schofield Inc E L 216 Mill St Rockford III (Hot water)

(Hot water)
Stewart-Warner Corp., South Wind Div.,
1514 Drover St., Indianapolis 7, Ind.
"Stewart-Warner South Wind." (Gasoline
burning, for cars and trucks.)
Temp-R-lzer—See Laharco Industries Ind

Thermo King Corp 44 S 12th St Minneapolis
3 Minn (Truck and trailer)
Torid-Aire—See Truck & Coach Heater Mfg

Truck & Coach Heater Mfg Co 2465 W Davison Ave Detroit 38 Mich "Torid-Aire" son Ave D (Hot water)

HEATERS, Engine Pre-Heating (Permanent Type)

installed in cooling (Permanently avatem)

Clayton Mfg Co 401 N Temple City Blvd El Monte Calif "Summeraire"
Five Star Mfg Co Box 149 Clarksdale Miss "Freeman" (Electrical)
Flash—See Phillips Mfg Co Freeman—See Five Star Mfg Co 917 W Broadway Spokane I Wash (Electric)
Laharco Industries Inc 721 Second Ave N Minneapolis 5 Minn "Temp-R-izer"
Minit-Heat—See Stewart-Warner Corp Perfection Industries Div of Hupp Corp 1135 Ivanhoe Rd Cleveland 10 Ohio (Oli and gasoline burning)
Phillips Mfg Co 2816 Aldrich Ave S Minneapolis 8 Minn "Flash" "Zero-Start" (Headbolt dipstick and external tank types)

(Headbolt dipstick and external tank types)
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio "Schauer Kar-Start"
South Wind—See Stewart-Warner Corp Stewart-Warner Corp South Wind Div 1514
Drover St Indianapolis 7 Ind "South Wind"
"Minit-Heat"
Summeraire—See Clayton Mfg Co
TPI—See Tech Products Inc
Tech Products Inc 615 Pennsylvania Ave
Elizabeth N J "TPI"
Temp-R-izer—See Laharco Industries Inc
Zero-Start—See Phillips Mfg Co

HEATERS, Factory, Etc.

ABC—See American Blower Corp.
ABC Venturafin—See American Blower Corp.

Corp.
Airtherm Mfg Co 700 S Spring Ave St Louis
10 Mo (Unit steam hot water and gas)
American Blower Corp., Detroir 32. Mich.
"ABC." "ABC Venturafin." (Unit.)
Brubaker Mfg Co Broad St Landisville I'a

Brubaker ang
"Keystone"
Buffalo Forge Co 490 Broadway Buffalo 4
N Y (Unit)
N Y (Unit)

N Y (Unit)
Carrier Corp., 300 S. Geddis St., Syracuse 1,
N. Y. (Unit)
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
Consolidated Metal Products Corp 412 N
Pearl St Albany N Y
Counterfio—See Dravo Corp Machinery Div
Day & Night Mfg Co 855 Anaheim-Puente
Rd La Puente Calif (Gas unit)
Dravo Corp Machinery Div Dravo Bidg Fifth
& Liberty Aves Pittsburgh 22 Pa "Counterfio" (Gas or oil or combination)
Ewing Mfg Co 2545 N W 10th St Oklahorna

flo" (Gas or oil or combination)
Ewing Mg Co 2545 N W 10th St Oklahoma
City Okla "Little Demon" (Gas)
Fedders-Quigan Corp., 57 Tonawanda St.
Buffalo 7, N. Y. (Unit.)
G-E—See General Electric Co
General Electric Co Apparatus Sales Div
1. River Rd Schenectady 5 N Y "G-E"
(Electric)

(Electric)
Grid—See D. J. Murray Mfg. Co.
Grinnell Co., 260 W. Excl.ange St., Providence 1, R. I. "Thermoller." (Unit.)
Ilg Electric Ventilating Co. 2550 N Pulaski
Rd Chicago 41 Ill (Unit.)
Keyatone—See Brubaker Mfg. Co.
Little Demon—See Ewing Mfg Co.
McCord Corp Riopelle at E Grand Bivd
Detroit 11 Mich (Steam or hot water unit.)
Mcdine Mfg. Co. 1500 De Kovan Ave.

Detroit 11 Mich (Steam or not water unit)
Modine Mfg. Co., 150e De Koven Ave.,
Racine, Wis. (Unit.)
Murray Mfg. Co., D. J., 1002 Third St., Wausau, Wis. "Grid."
Overhead Heaters Inc 1612 Book Bidg Detroit 26 Mich "Shafconaire" (Oli and gas
unit)

unit)

Panelbloc—See Prat-Daniel Corp Thermo-bloc Div Perfection Industries Div of Hupp Corp 1135 Ivanhoe Rd Cleveland 10 Ohio (Oil)

Prat-Daniel Corp Thermobloc Div 2 Meadow St South Norwalk Conn "Thermobloc" (Warm air, gas or oil fired; "Panelbloc" infra-red gas-fired) Reznor Mfg Co 402 Jane St Mercer Pa (Gas

unit)
Schofield Inc E L 2230 7th Ave Rockford
Ill (Hot water)
Shafconaire—See Overhead Heaters Inc
Stow Mfg Co 443 State St Binghamton N Y
Thermobloc—See Prat-Daniel Corp Thermo-

bloc Div

bloc Div
Thermoller—See Grinnell Co.
Trane Co 206 Cameron Ave La Crosse Wis
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill "Walkiki"
Vogt Bros Mfg Co 1402 W Main St Louisville 8 Ky (Portable)
Walkiki—See Vapor Heating Corp

Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.
Wing Mfg Co L J 57 Vreeland Mills Rd Linden N J "Wing" "Wing Utility" "Wing Featherweight" "Wing Revolving" (Unit) Young Kadiator Co., 709 S. Marquette St., Racine, Wis.

HEATERS, Flywheel Gear

Greaves Machine Tool Div of J A Fay & Egan Co Eastern Ave & Hazen St Cincinnati 2 Ohio Wilson Inc K R Arcade N Y "KRW"

HEATERS, INDUCTION HEATING - See Machines, Induction Heating

HEATERS, Paint (Hot Spray)

Arco Co 7301 Bessemer Ave Cleveland 27 Ohio Ohio Bede-See Nordson Corp Binks Mfg Co 3114 Carroll Ave Chicago 12 Ill "Dualheet" See Flinks Mfg Co III "Dualheet"
ualheet—See Binks Mfg Co
e Vilbiss Co 300 Phillips Ave Toledo 1 Ohio
ordson Corp Jackson St Amherst Ohio
"Bedo" Spee-Flo Mfg Corp 720 Polk Ave Houston 2 Tex

Thermalcup Inc 3550 W 137th St Cleveland 11 Ohio "Thermalcup" "Thermalfio"

HEATING LAMPS-See Lamps Drying Baking and Heating

HEIGHT GAGES-See Gages, Height

HELMETS, Sand Blasting and Welding

Air Reduction Sales Co Socony-Mobile Bidg 150 E 42nd St N Y 17 N Y (Welding) American Optical Co Safety Products Div Mechanic St Southbridge Mass Soyer-Campbell Co 6540 st Antoine St De-troit 2 Mich urdett Oxygen Co. of Cleveland, Inc.. 3200 Lakeside Ave., Cleveland 14, Ohio. (Weld-Burdett

ing.) -See Chicago Eye Shield Co

Trindl 1

fillson Products, Inc., Second & Washington Sts., Reading, Pa. (Welding.)

HINGES, Door (Auto)

American Forging & Socket Co P O Box 120 Pontiac Mich

American Forging & Socket Co P O Box 120
Pontiac Mich
Betts Machine Co 1800 Pennsylvania Ave W
Warren Pa (Tank truck)
Cleveland—See H K Porter Co
Eberhard Mfg. Co., Div. Eastern Malleable
Iron Co., 2723 Tennyson Rd., Cleveland 4,
Ohio. (Truck.)
Hansen Mfg. Co., A. L., 5037 Ravenswood
Ave., Chicago 40, Ill. (Commercial body.)
Kason Hardware Corp 71 Wallabout St
Brooklyn 11 N Y (Truck and trailer body)
Miner Inc W H 209 S La Salle St Chicago 4
Ill. (For truck and trailer hodies)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 2200 E 79th St Cleveland Forge Works 2200 E 79th St Cleveland 4 Ohio "Cleveland" (Truck)
Press Products Co 1750 Stephenson Hwy
Royal Oak Mich
Soes Mfg Co 21777 Hoover Rd Detroit 13
Mich
Standard Products Co 2130 W 110th St Cleve-

Standard Products Co 2130 W 110th St Cleve-

land 2 Ohio Stanley Works (Pressed Metal Div.), 195 Lake St. New Britain, Conn Tompkins H S 188 Chambers St New York 7 N Y

HINGES, Hood

American Forging & Socket Co P O Box 120 Pontiac Mich Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 III Detroit Diamond—See Motor Products Corp.

Ferro Stamping Co 1367 Franklin St Detroit 7 Mich Hancock Mfg. Co., 225 N. Horton St., Jackson. Mich. Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond."

Soss Mfg Co 21777 Hoover Rd Detroit 13 Mich.

Standard Products Co 2130 W 110th St Cleveland 2 Ohio tolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

HITCHES, TRAILER—See Couplers, Trailer
HOB GRINDING MACHINES—See Machines,
Grinding (Hob)
HOBBING MACHINES—See Machines, Gear Hobbing

HOBS. Gear

Barber-Colman Co., 1300 Rock St., Rock-

Barber-Coiman Co., ford, Ill Hanson-Whitney Machine Co 169 Bartholomew Ave Hartford 2 Conn Illinite-See Illinois Tool Works Illinois Tool Works 2501 N Keller Ave Chicago Ill "Illinite"

cago III "Hillinite"
Michigan Tool Co., 7171 McNichols Rd., E.,
Detroit 12 Mich
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
National Twist Drill & Tool Co., Rochester.

Mich Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio nion Twist Drill Co., Monroe St., Athol

HOBS, Thread Milling

Continental—See Ex-Cell-O Corp
Ex-Cell-O Corp Continental Tool Works Div
1200 Oakman Blvd Detroit 32 Mich "Con(Power and hand hoi

tinental"
Goddard & Goddard Co 12280 Burt Rd De-troit 23 Mich
HW-See Hanson-Whitney Co
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW"

ing.)

Chicago Eye Shield Co.
Chicago Eye Shield Co.
Chicago Eye Shield Co.
Chicago Eye Shield Co.
Chicago Is Ill "Cesco"
Dockson Co., C., H., 3839 Wabash Ave., Detroit 8, Mich.
Hobart Bros Co Canal Locks Sq Troy 1
Ohio (Welding)
Lincoin Electric Co 22301 St Clair Ave Cleveland 17 Ohio (Welding)
Marquette Mig. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Welding.)
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co. 840 N. Michigan Ave., Chicago 1, Ill. "NCG." (Welding.)
Pangborn Corp., 200 Pangborn Blvd., Hagerstown, Md. (Sand blasting.)
Puralr—See Sly Mg. Co.
Ruemelin Mfg. Co., 3860 N. Palmer St., Milwankee, Wis. (Sand blasting.)
Sly Mfg. Co., W. W., 4706 Train Ave., Cleveland, Ohio. "Purair." (Sand blasting.)
Trind Products Ltd 1807 S Clark St Chicago 16 Ill
Willson Products. Inc., Second & Washington & Sepviva St Philadelphia 37 Fa "Lo-neo Barrett-Cravens Co 630 Dundee Rd Northbrook III
Bearcat-See Harrington Co
Chester Holat Div National Screw & Mfg
Co Lisbon Ohio
Chisholm-Moore Holst Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y "Comet" "Lodestar" "Meteor"
Cleveland Crane & Engineering Co 5868 E
2837d St Wickliffe Ohio "Cleveland Tramrail"
Coffing Holst Div Duff-Norton Co 800 Walter
St Danville III "Quile-Lift"
Comet-See Chisholm-Moore Holst Div.
Conco Engineering Works, Div. of H. D.
Conkey & Co. Mendata, III.
Detroit Holst & Machine Co 8216 Morrow
St Detroit 11 Mich "Detroiter" "Titan"
Electro Lift Inc 204 Sargeant Ave Clifton
N J
Ford Chain Block Div of American Chain &
Cable Co Bridgenort Conn "Ford Whinpet"
Harnischieger Corp Milwaukee 46 Wis "P

Harnischfeger Corp Milwaukee 46 Wis

de Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa "Bearcat" Hi-Lift-See Northern Engineering Works, Load-Lifter—See Manning Maxwell & Moore

Load-Lifter—See Manning Maxwell & Moore Inc
Lodestar—See Chisholm-Moore Hoist Div
Lo-Hed—See American Engineering Co.
Manning Maxwell & Moore Inc Shaw-Box
Crane & Hoist Div Park & Broadway
Muskegon Mich "Load-Lifter"
Meteor—See Chisholm-Moore Hoist Div
Northern Engineering Works 210 Chene St
Detroit 7 Mich "Hi-Lift"
Ohio Holst Mig Co 321 S Beaver St Lisbon O
P & H—See Harnischfeger Corn
Quik-Lift—See Coffing Hoist Div Duff-Norton Co
R & M—See Robbins & Myers, Inc.
Reading Crane & Hoist Corp 2140 Adams
R' Reading Pa
Robbins & Myers, Inc., 1345 Lagonda Ave.,
Springfield Ohio "R & M"
Round & Son David Box 883 Cleveland 22

Round & Son David Box 883 Cleveland 22

Chicago 22 III Shepard Niles Crane & Hoist Corp Montour -Palls N Y Thomas Hoist Co., 20 S. Hoyne Ave., Chi-

rago 12, Ill Titan—See Detroit Hoist & Machine Co.

Wright Hoist Div. of American Chain & Cable Co., York, Pa. Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

HOISTS, MONORAIL-See Cranes, Monorail

HOISTS, Pneumatic

Aro Equipment Corp Bryan Ohio Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 20 Mo Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich St Detroit 11 Mich Holmes Co., Ernest, 2505 E. 43rd St., Chatta-nooga, Tenn. Ingersoll-Rand Co 11 Broadway New York 4 N Y Keller Tool Div Gardner Denver Co 1338 Fulton St Grand Haven Mich Northern Engineering Works 210 Chene St Detroit 7 Mich Platz Co 20433 Sherwood Ave Detroit 34

HOISTS, Portable

(See also Cranes, Portable)

(See also Cranes, Portable)
Hyster Co 2980 N E Clackamas St Portland
8 Ore
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 13 Wis
Manning Maxwell & Moore Inc Shaw-Box
Crane & Hoist Div Park & Broadway
Muskegon Mich
Saggen De.rick Co., 2101 W. Grand Ave.,
Chicage 29 III

Thor Power Tool Co 175 State St Aurora III

Chicago 22. III.

S Chemical & Supply Co 400 E 10th Ave
North Kansas City 16 Mo

(Power and hand hoists for dumping bodies)

Anthony Co Streator III "Anthony Tele-ramic" (Hydraulic) Aristocrat.—See Truck Engrg Co Cemco Industries Inc of Galion Ohie Converto Mfg Co Third & Green Sts Cam-bridge City Ind

Converto Mfg Co Third & Green Sts Cambridge City Ind
Cook Bros Equipment Co 3334 San Fernando Rd., Los Angeles 65, Calif.
Cresci & Son Inc Boulevard & Grape Sta
Vineland N J
Daybrook Hydraulic Div Young Spring &
Wire Corp Sowling Green Ohlo "Daybrook Speedlift"
Gar Wood Industries Inc Wayna Mich "Gar

where Corp Bowing Green Onto Day-brook Speedlift"
Gar Wood Industries Inc Wayne Mich "Gar Wood-St Paul"
General Body & Hoist Co Paris & Garvey Sts Everett 49 Mass "Universal"
Heil Co 3000 W Montana St Milwaukee 1 Wis (Hydraulic)
Hercules Galion Products Inc Galion Onto Ingersoil Kalamazoo Div Borg-Warner Corp 1810 N Pitcher St Kalamazoo Mich "Load Lugger" (For detachable container bodies) Little 'siant Products Inc 1626 N Adams St Peoria 3 Ill (Hand)

Peoria 2 III (Hand)
Load Lugger—See Ingersoll Kalamazoo Div
Borg-Warner Corp
Lundell Mfg Co Cherokee Iowa
Manning Maxwell & Moore Inc Shaw-Box
Crane & Hoist Div Park & Broadway
Muskegon Mich
Marion Ohio (Hvdraulie)

Marion Ohlo (Hvdraulic)
Minneapolis Freeman Mfg Co 5610 W 36th
St Minneapolis 16 Minn
Omaha Standard 2401 W Broadway Council
Bluffs Iowa (Hydraulic)
Penn Body Div. Hockensmith Corp., 1946
Penn St., Penn. Pa.
Perfection Steel Body Co S East St Gallon
Chine (Hydraulic)

Ohio (Hydraulic)
Schwartz Mfg Co Lester Prairie Minn (Also
ramp hoist)
Truck Engrk Co 3200 E Pontiac St Fort
Wayne 4 Ind "Aristocrat"
Universal—See General Body & Holst Co
Weston Dump Body Co 326 W 11th St Des
Maines & Lowe

Moines 9 Iowa

Wisconsin Hydraulics Inc 3165 N 30th St Mil-waukee 16 Wis

HOLDERS, Electrode

Chicago Tool & Engrg Co 8383 South Chicago
Ave Chicago Ill
Lincoin Electric Co 22801 St Clair Ave Cleveland 17 Ohlo
Mallory & Co P R 3029 E Washington St
Indianapolis 6 Ind "Nu Wrinkle Cap"
"Mallory" (Resistance)
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn
Miller Electric Mfg Co 718 S Bounds St Appleton Wis
Nu Wrinkle Cap—See P R Mallory Co

Nu Wrinkle Cap—See P R Mallory Co Tolman Mfg Co 19 W Third St (South Bos-ton) Boston 27 Mass

HOLDERS, Electrode-continued

Tweco Products Co Boston at Mosley Sta Wichita 1 Kan "Tweco" "Twecotong" "Tweco Hol-Grip" US Electric Weider Corp., 1258 Dorr St.,

US Electric We Toledo 7, Ohio

HOLDERS, Oil Barrel and Can

(For holding either round or square oil cans and so arranged that the can may be readily tipped and oil poured from it without lifting it)

from it without lifting it)
Akron-Selle Co., High & Chestnut Sts.,
Akron 11, Ohio.
American Pulley Co 4200 Wissahickon Ave
Philadelphia 29 Pa
Barrett-Cravens Co 630 Dundee Rd Northbrook III
Economy Engineering Co., 4511 W. Lake St.,
Chicago 24, III. "Red Rocker."
Ezmover-See Southwest Pump Co.
Ezmty-See Southwest Pump Co.
Ezmty-See Southwest Pump Co.
Fairbanks Co 393 Lafayette St N Y 3 N Y
Morse Mfg Co 727 W Manlius St East Syracuse N Y
Red Rocker-See Economy Engineering Co.
Sabin Machine Co., 6536 Carnegle Ave.,
Cleveland 3, Ohio.
Southwest Pump Co., First & Center Sts.,
Bonham, Tex. "Ezmty," "Ezmover."
West Bend Equipment Corp., 216 S. Water
St., West Bend, Wis.

HOLDERS, Tool

(For lathe, planer, slotter and shaper) (See also Tools, Lathe, Planer, Slotter and Shaper)

Allegheny Ludlum Steel Corp Carmet Div Detroit 20 Mich

du Lac Wis
Dexamatic—See Viking Tool Co
Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "H&G" (Seircentering for automatic screw machines,
turret lathes, tapping machines and drili

presses)
Brickson Tool Co 2309 Hamilton Ave Cleveland 14 Ohlo (Floating)
Gairing Tool Co 21221 Hoover Rd Detroit 32
Mich "Chip-Hog" (Turret lathe)
Graham Mig. Co., 47 Bridge St., East Greenwich, R. I. (Knurl, for turret lathes.)
H&G-See Eastern Machine Screw Corp
Jergens Tool Co 712 E 163rd St Cleveland 10
Ohlo

Onio Klamp-Lok—See Metal Carbides Corp Last Word Sales Co 18500 Mt Elliott Ave De-troit 34 Mich "Samson" (For boring bars, drills and end mills in milling machines

drills and end mills in milling machines and boring mills)
Lipe, Inc., W. C., 208 S. Geddes St., Syracuse, N. Y.
McCrosky Tool Corp., S. Main St., Meadville, Pa. (Lathe and turret.)
Matthews & Co Jas H 3942 Forbes St Pittsburgh 13 Pa.
Maxwell Co 493 E Fifth St Ashtabula Ohio (For boring and facing)
Metal Carbides Corp 107 E Indianola Ave Youngstown 7 Ohio "Klamp-Lok"
O K Tool Co Milford N H
PDQ.—See Portage Double Quick Inc
Portage Double Quick Inc 1033 Sweitzer Ave
Akron Ohio "PDQ"
Samson—See Last Word Sales Co
Scully-Jones & Co 1977 S Rockwell St Chicago 8 III
Seibert & Sons Inc Chenoa III (Floating)

cago 8 III Seibert & Sons Inc Chenoa III (Floating)
South Bend Lathe Works 425 E Madison St
South Bend 22 Ind
Tolman Mfg. Co., 19 W. Third St. (South
Boston), Boston, Mass.
Tool-fex-See Burg Tool Mfg Co
V-R.—See Vascoloy-Ramet Corp
Vascoloy-Ramet Corp
Vascoloy-Ramet Corp
Vascoloy-Ramet Corp
Viking Tool Co 1000 Nichols Rd Shelton Conn
"Dexamatic"

Viking Tool Co 1000 Nichols Rd Shelton Conn
"Dexamatic"
W-W-See Weiger-Weed & Co
Walton Co Box 5 Elmwood Branch Hartford
10 Conn "Walton-American"
Waukesha Cutting Tools Inc Midland &
Pearl Sts Waukesha Wis
Weiger-Weed & Co. (Div. Fansteel Metaliurgical Corp.), 11644 Cloverdale Ave., Detroit 4, Mich. "W-W."

Wesson Tool Co 12200 Woodward Heights Blvd Ferndale 20 Mich "Wesson Multicut" Williams & Co., J. H., 400 Vulcan St., Buf-falo 7, N. Y. (Lathe, for turning, boring, cutting, threading and knurling.)

HONES, Cylinder

(See also Machines, Honing [Cylinder]) Ammeo Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.) Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake

St. Louis v. Au. Transport of the Corp.
Grum.)
Blue Point—See Snap-On Tools Corp.
Clark-Feather Mfg Co 116 W Railroad Ave.
Ft Morgan Colo.
Hall-Toledo Inc. 2931 South Ave. Toledo 9

Ohio
Hole Hog—See Moline Tool Co
Hydrobrake—See Micromatic Hone Corp
Hydrohones—See Micromatic Hone Corp.
KRW—See K R Wilson Inc
Keystone Reamer & Tool Co., Millersburg.
Pa.

Pa. Lisle Corp., 809 E. Main St., Clarinda, Iowa. Microhones—See Micromatic Hone Corp. Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 33 Mich "Hydrohone" "Odee-Hone" "Micromold" "Hydrohrake"

Micromold—See Micromatic Hone Corp Moline Tool Co 102 20th St Moline Ill "Hole

Moline Tool Co 102 Sets Co.
Hog"
Odee-Hone—See Micromatic Hone Corp
Snap-On Tools Corp 8046 28th Ave Kenosha
Wis "Blue Point" (Brake)
Staple Engrg Co 1318 S Woodward Ave Birmingham Mich
Storm-Vulcan Inc 2225 Burbank St Dallar
19 Tex
Connan Products Co., 7919 Manchester Ave.

19 Tex Sunnen Products Co., 7919 Manchester Ave. St. Louis 17. Mo. Thermoid Co Whitehead Rd Trenton 6 N J Van Norman Automotive Equip Co 3840 Main St Springfield 7 Mass Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.) Wilson Inc K R Arcade N Y "KRW" (For Ford cars)

HONES, Small Bore

(For piston pins, brake cylinders, bush-ings, etc.)

ings, etc.)

Ammeo Tools, Inc., 2106 Commonwealth
Ave., North Chicago, III.

Beard Tool Co., L. O., Andrew & Mill Sts.,
Lancaster, Pa. (Brake cylinder, piston pin
and king pin bushing.)

Blackhawk—See New Britain Machine Co

Brake-hone—See Precision Hone Co

Cal-Van Machine Products Inc 809 S Water

St Jackson Mich (Brake cylinder)

Dow Mechanical Corp Thompsonville Conn
"Unahone"

Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio (Brake cyl-

inder)
Honette—See Precision Hone Co
Kent-Moore Organization Inc 1501 S Jackson
St Jackson Mich (Piston pin)
Keystone Reamer & Tool Co., Millersburg.
Pa. (Piston pin)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Lisle Corp. 809 B. Market Corp.

Usie Corp., 809 E. Main St., Clarinda, Iowa (Brake cylinder and piston pin.) Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich

Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain" (Brake cylinder) Precision Hone Co 8618 Dearborn St Detroit 17, Mich. "Honette" (Piston pinbrake cylinder). Brake-hone." brake cylinder)
Reasor Mfr Co 13th & Indiana Ave St Charles III Stanle Engrg Co 1315 S Woodward Ave Birmingham Mich Sunnen Products Co., 7310 Manchester Ave., St. Louis 17, Mo. (Piston pin.) Unahone—See Dow Mechanical Corp Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

HONING MACHINES—See Machines, Honing HOOD PARTS—See Fasteners, Hood; Hinges, Hood; also Ventilators, Hood

HOODS, Engine

Anderson Co O L 1347 E Fort St Detroit 7 Mich (Hood and fender assemblies) Ansted Corp 1428 W Henry St Indianapolis 7 Ind

Champion Sheet Metal Co 2 Squires St Cort-land N Y (To order) Chicago Mfz. Co., 411 N. Trumbull Ave., Chicago, Ill.

Cook Metal Works Inc 237 S Campbell Ave

Cook Metal Works inc 237 S Campuell Ave Mishawaka Ind Cutler Metal Products Co., 1025 Line St., Camden, N. J. & Blum Mfg. Co. Kirk & Blum Mfg Co 3120 Forrer St Cincin-nati 9 Ohio 'K & B'' Rex Metal Parts Co., 1295 W. 78th St., Cleve-

Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2. Ohto
Stolper Steel Products Corp 300 Pilgrim Rd
Menomonee Falls Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
York Corrugating Co. Adams St. & W. Md
R. R., York, Pa. (Truck.)
Youngstown Kitchens Div of American—
Standard 605 S Ellsworth St Salem Ohio

HORNS, Electric

Air Shell—See Sparton Automotive Div Auto-Lite—See Electric Auto-Lite Co Delco-Remy Div General Motors Corp 240: Columbus Ave Anderson Ind "Klaxon" Do-Ray Lamp Co 1458 S Michigan Ave Chi-

cago 5 III Edwards Co., Norwalk, Conn. Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Hornet—See Sparton Automotive Div Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9,

Neb.
Kiaxon—See Delco-Remy Div., General Motors Corp.
Marvel—See Sparton Automotive Div Multi-tone—See Jubiles Mfg. Co.
Sparton Automotive Div of Sparton Corp.
Jackson Mich. 'Air Shell'. 'Hornet'. 'Marvel'. 'Su Power'. 'Sparton'. 'Tornado'.
'Trumpet'.
Su Power—See Sparton Automotive Div.
Trumped—See Sparton Automotive Div.

Su Power—See Sparton Automotive Div Tornado—See Sparton Automotive Div Trumpet—See Sparton Automotive Div

HORNS, Electric-Air

Sparton Automotive Div of Sparton Corp Jackson Mich "Tornado" Tornado—See Sparton Automotive Div

HORNS, Pneumatic

Auto-Lite—See Electric Auto-Lite Co Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohlo. Buell Mfg Co 919 W 49th Pl Chicago 9 Ill "Buell" & "Buell-Strombes" Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

General—See Western Products Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calff. Kahlenberg Bros Co 1202 Monroe St Two Rivers Wis

Kahlenberg Bros Co 1202 Monroe St Two Rivers Wis

Sparton Automotive Div of Sparton Corp Jackson Mich

Trico Products Co 817 Washington St Buffalo 3 N Y "Trico Claireon"
Wagner Electric Corp 6400 Plymouth Ave St Louis 14 Mo
Western Products 12906 S Halldale Ave Gardena Calif "General"
Yoder Mfg Co 1828 E 17th St Little Rock Ark (Wolf, bulb type)

HORNS, Siren

(For ambulances, police and fire de-partment apparatus)
Federal Sign & Signal Corp \$765 S State St Chicago 19 III (Also combination siren and warning light, for emergency and military vehicles)

vehicles)
Pyle-National Co 1334 N Kostner Ave Chicago 51 Ill
Sireno Co 214 William St NY 38 N Y (Also
combination siren and flashing red light)
Sterling Siren Fire Alarm Co 8 Bartlett St
Rochester 8 N Y (Electric)

HORNS, Vacuum Operated

Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif. rico Products Corp., \$17 Washington St., Buffalo 3, N. Y. "Trico Claireon."

HORSES and TRESTLES, Adjustable

HORSES and TRESTLES, Adjustable
Alax Mfg Corp of Wisconsin 1201 Michigan
Blvd Racine Wis
Automotive Equipment Mfg Co 11000 S Alameds St Lynwood Calif "Lee"
Auto Specialities Mfg Co 643 Graves St 81
Joseph Mich
Bay Lift Div Lifetime Products Corp Box
537 Youngstown Ohio "Bay Rocker Head"
Bender Equipment Co J H 5430 Tweedy Bivd
South Gate Calif
Big Four Industries Inc 5938 Carthage Court
Cincinnati Ohio
Blackhawk Mfg Co 5325 W Rogers St Milwaukee 46 Wis "Red Stallion"

Cochin Mfg Co 1440 E Grand Ave South San Francisco Calif "Easy"
Easy—See Cochin Mfg Co
Edgewater Automotive Div Auto Specialties Mfg Co St Joseph Mich "Fleet"
Fleet—See Edgewater Auto Div Auto Specialties Mfg Co
Globe Hoist Co E Mermaid Lane & Queen St
Philadelphia 18 Pa
Hein-Werner Corp 1200 National Ave Waukesha Wis
Lovee-Cridland Co. 2027 E. First St., Dayton

Automotive Equip Mfg Co

Ohio
Lee—See Automotive Equip Mfg Co
Lempco Products, Inc., 5490 Dunham Rd.,
Bedford, Ohio,
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 12 Wis
Noverlode—See Whitewater Mfg Co
Hed Stallion—See Blackhawk Mfg Co
Vulcan Mfg Co 400 W Third St Winona
Minn

Minn Wakner Mfg Co 122 W 1st Cedar Falls Iowa Walker Mfg Co of Wis 1201 Michigan Blwd Racine Wis

Racine Wis 'eaver Mfg. Co., 2177 S. Ninth St., Spring-field. Ill. (Horses.) 'Filtewater Mfg. Co 520 Jefferson St White-water Wis "Noverlode" (Adjustable-port-

Wilson Inc K R Arcade N Y "KRW"

HOSE. Air Brake

Acme Rubber Mfg Co 115 Meade St Trenton N J

ton N J Acroquip Corn 200 S East Ave Jackson Mich Amcor—See American Coupling Corp American Coupling Corp 2335 Goodrich St Ferndade 20 Mich "Amcor" Anchor Coupling Co 342 N 4th St Liberty-

ville III
Boston Woven Hose & Rubber Co 29 Hamp-shire St Cambridge Mass (P O Box 1071 Boston 3 Mass)
Crown Products Co 5722 S 77th St Ralston Neb

Gates Rubber Co 999 S Broadway Denver 17

Colo Haywood Industries P O Box 1004 Dayton 1 Ohio "Modac"
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Monarch"
Modac—See Haywood Industries
Monarch—See Hewitt-Robins Inc
Quaker Rubber Corp Tacony & Comly Sts
Philadelphia 24 Pa
Raybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M"
Raybestos-Manhattan Inc Plastic Products

Div Stratford Conn "R/M"
Raybestos-Manhattan Inc Plastic Products
Div Manheim Pa
Stratoflex Inc 220 Roberts St Cut-off Fort
Worth Tex
Velvac Inc 3534 W Pierce St Milwaukee 15
Wis

Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind

HOSE, Air, Pneumatic Tool (Armored) (For air compressors and pneumatic tool service)

Co 54th & Jefferson Sts Phila-Mulconroy Co 3 delphia 31 Pa

HOSE, Air, Pneumatic Tool (Rubber and Fabric)

Fabric)

Ajax—See Hewitt-Robins Inc
Anchor Coupling Co 342 N Fourth St Libertyville Ill
Arno—See Cincinnati Rubber Mfg Co
CP—See Chicago Pneumatic Tool Co
Chicago Pneumatic Tool Co 6 E 44th St
New York N Y "CP"
Cincinnati Rubber Mfg Co Franklin Ave
Norwood Cincinnati 12 Ohio "Arno" "Cincinnatus" "Losant"
Conder—See Raybestos-Manhattan Inc
Conservo—See Hewitt-Robins Inc
Continental Rubber Works 1946 Liberty St
Erie Fa "Liberty"
De Vilbiss Co 300 Phillips Ave Toledo 1 Ohio
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio "Highfex"
Goodyear Tire & Rubber Co., E. Market St.,
Akron 18 Ohio.
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Conservo" "Hewitt"
"Maltese Cross" & "Monarch"
Highflex—See B F Goodrich Industrial Products Co
Liberty—See Continental Rubber Works
Losant—See Cincinnati Rubber Mfg Co

ucts Co
Losant—See Continental Rubber Works
Losant—See Cincinnati Rubber Mfg Co
Maltese Cross—See Hewitt-Robins Inc
Manhattan—See Raybestos-Manhattan Inc
Manhattan Rubber Div
Mercer Rubber Co Hamilton Square N J

Monarch—See Hewitt-Robins Inc Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Condor"

Div 61 Willet St Passale N J "Condor" "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio Thermoid Co Whitehead Rd Trenton N J Thor Power Tool Co 175 State St Aurora Ill United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio, United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Air, Tire Inflating (Rubber and Fabric)

Acme Air Appliance Co 205 Newman St Hackensack N J Co 115 Meade St Trenton N J

N J Aeroquip Corp 300 S East Ave Jackson Mich Amco—See Asbestos Mfg Co Asbestos Mfg Co E Sabine St Huntington Ind "Amco"

Ind "Ameo"

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.

Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass)

Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Champion Pneumatic Machinery Co 825 N Pleasant St Princeton III
Conservo—See Hewitt-Robins Inc Continental Rubber Works 1946 Liberty St Eric Pa "Fanduro" "Vitalic"
Crown Products Co 5722 S 77th St Ralston

Crown Products Co 5722 S 77th St Ralston

Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Cuard-A"

Dayton Rubber Co 2342 Riverview Ave Day-ton Ohio De Vilbiss Co 300 Phillips Ave Toledo 1 De Ohio

Ohlo
Diamond Rubber Co Div of B. F. Goodrich
Co 500 S Main St Akron 8 Ohlo
Enduro—See Continental Rubber Works
Gates Rubber Co 999 S Broadway Denver
17 Colo "Gates Vulco"
Goodyear Tire & Rubber Co., E. Market St.,
Akron 16 Ohlo.

Akron 16 Ohio.

Guard-A-See Dallas Mfg & Sales Co

Haywood Industries P O Box 1004 Dayton 1

Ohio "Moduc"

Hewitt-Robins Inc 666 Glenbrook Rd Stam-

ford Conn "Conservo" "Servall" Hite Mfg Co 1916 Dayton Blvd North Chat-tanoga & Tenn

tanoga a Tan
Holdfast—See Koehler Rubber & Supply Co
Koehler Rubber & Supply Co 2865 Carnegie
Ave. Cleveland 15 Ohio. "Holdfast"
Lincoln Engrg Co 4010 Goodfellow Blvd St
Louis 20 Mo
Metal Hose & Tubing Co., W. Clinton St.,
Dover. N. J.
Miller Rubber Co., Div. of B. F. Goodrich
Co., 500 S. Main St. Akron, Ohio.
Modac—See Haywood Industries
Par—See Peters & Russell Inc
Peters & Russell Inc 501 W Liberty St
Springfield 99 Ohio "Par"
Quaker Rubber Corp Taconv & Comly Sts
Philadelphia 24 Pa "Korker" "Quaker"
R/M—See Raybestos-Manhattan Inc

Philagelphia 28 Pa "Korker" Quaker R/M—See Rayhestos-Manhattan Inc Raybestos-Manhattan Inc Equipment Sales Div Stratford Conn "R/M" Ridbo Laboratories Inc 211 E Harrison St Danville III Servall—See Hewitt-Robins Inc

Swan Rubber Co 436 E Mansfield St Bucyrus Oblo Ohlo
Thermoid Co Whitehead Rd Trenton 6 N J
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York
20. N. Y.
Vitalic—See Continental Rubber Works.
Weatherhead Co Ft Wayne Div 128 W
Washington Blvd Fort Wayne Ind

HOSE, BOOSTER BRAKE-See Hose, Vacuum Brake

HOSE, Car Heater

Acme Rubber Mfg Co 115 Meade St Trenton N J

N J Boston Woven Hose & Rubber Co 28 Hamp-shire St Cambridge Mass (P O Box 1071 Boston 3 Mass)

Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio Continental Rubber Works 1946 Liberty St Erie Pa

Crown Products Co 5722 S 77th St Ralston Neb Dallas Mfg & Sales Co P O Box 7181 Dallas

Dayton Rubber Co 2342 Riverview Ave Day-ton Ohio 'Guard-A'

Durkee-Atwood Co 215 Seventh St NE Min-

Durkee-Atwood Co 215 Seventh St NE Min-neapolis 13 Minn Everhot Products Co 2001 W Carroll Ave Chicago 12 III Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"

Colo "Gates Vulco"
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio
Guard-A-See Dallas Mfg & Sales Co
Haywood Industries P O Box 1004 Dayton 1
Ohio "Modac"
Hewitt-Robins Inc 666 Glenbrook Rd Stam-

ford Conn

Miller Rubber Co Div of B F Goodrich Co 500 S Main St Akron Ohio Modac—See Haywood Industries Ridbo Laboratories Inc 211 E Harrison St

Middo Laboratories inc 211 E Harrison St Danville III Standard Products Co 2130 W 110th St Cleve-land 2 Ohio Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio. Thermoid Co Whitehead Rd Trenton 6 N J

HOSE, Defroster

Acme Rubber Mfg Co 115 Mead St Trenton

Everflex-See Everhot Products Co

Everhot Products Co
Everhot Products Co
Everhot Products Co 2001 W Carroll Ave
Chlcago 12 Ill "Everfiex"
G & G Products Co Lindale Rd Amelia Ohio
Inland Mfg. Div., General Motors Corp., 2727
Inland Ave., Dayton 1, Ohio
Lightnin—See R J Loock & Co

"Loock & Co R J 343 N Gay St Baltimore Md
"Lightnin"

Ohio Rubber Co 200 Ben Hur Ave Willoughby Ohio "Orco"
Orco—See Ohio Rubber Co Ohio

Wiremold Co Railroad Ave Hartford 10 Conn EXHAUST - See Tubing, Flexible Metallic

HOSE, Fire

Ajax—See Hewitt-Robins Inc
American-La France-Foamite Corp 157 E
La France St Elmira N Y
Cincinnati Rubber Mg. Co., Franklin Ave..
Norwood, Cincinnati 12, Ohio. "Cincin-

Cincinnatus-See Cincinnati Rubber Mfg Co Eureka—See United States Rubber Co General Fire Extinguisher Corp 6801 Rising Sun Ave Philadelphia 11 Pa "General In-nerflex"

nerflex"
Goodyear Tire & Rubber Co., E. Market St.
Akron 16, Ohio.
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Hewcron" "Hewrolite" "Maltese Cross" "Monarch"
Maltese Cross—See Hewitt-Robins Inc
Manhattan — See Raybestos-Manhattan Inc
Manhattan Rubber Div

Monarch—See Hewitt-Robins Inc Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa. Raybestos-Manhattan, Inc., Manhattan Rub-ber Div., 61 Willet St., Passaic, N. J

ber Div., 61 "Manhattan." eco Engrg & Mig Inc 1300 W Fort St De-trait 26 Mich

United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. "Eureka"

HOSE, FLEXIBLE METALL.
Flexible Metallic
HOSE, FLEXIBLE SYNTHETIC RESIN See Tubing, Synthetic Material FLEXIBLE METALLIC-See Tubing.

HOSE, Hydraulic Brake

Acme Rubber Mfg Co 115 Meade St Trenton

Aeroquip Corp 300 S East Ave Jackson Mich Anchor Coupling Co 342 N 4th St Liberty-ville III

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind "Bendix B-K." Delco-See Inland Mfg. Div.-General Motors Corp.

The Viking Tool Company, Inc. Shelton, Conn.

* * * INSERTED BLADE * * *
TOOL HOLDERS & MILLING CUTTERS
* * CARBIDE, HIGH SPEED, OXIDE * * *
INSERTS, BLADES and THROW-AWAYS Cutting Tool Manufacturers and Engineers

Circle 235 on Inquiry Card for more data

HOSE, Hydraulic Brake-continued

HOSE, Hydraulic Brake—continued

Els Automotive Corp., Middletown, Conn.

Everfex—See Everhot Products Co

Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ill "Everfex"

Excello Accessories Manufacturers Inc \$1

Madison Ave Hempstead N Y

Flexonics Corp 1315 S Third Ave Maywood
Ill "Rex-Tube." "Rex-Weld"

Flex-O-Tube Div of Flexonics Corp 2525 S

Jim Daly Rd Inkster Mich
Goodrich Industrial Products Co B F 500

S Main St Akron 18 Ohlo
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohlo.
Inland Mfg. Div.-General Motors Corp., 2727 ing, Ohio.

Inland Mfg. Div.-General Motors Corp., 2727

Inland Ave.. Dayton 1, Ohio. "Delco."

Lisle Corp Brake Div 805 E Main St Clarinda Master Parts Div Airtex Products Inc Fair-field Ill Master Parts Div Airtex Products Inc Pairfield III

Motive Equipment Mfrs., Inc., 5253 Roosevelt
Rd., Chicago 56, III. "Pilot."

Mulconroy Co 54th & Jefferson Sts Philadelphia 31 Pa

National Ignition Mfg. Co., 521 W. 23rd St.,
New York 11, N. Y. "Nimco."

Nimco-See National Ignition Mfg. Co.
Pilot-See Motive Equipment Mfrs., Inc.
Planet Metal Products Corp 364 Dean St
Brooklyn 18 N Y

Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn 32 N Y

R/M—See Raybestos-Manhattan Inc
Raybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M"

Rex-Tube-See Flexonics Corp
Stratofiex Inc 220 Roberts St Cut-off Ft
Worth Tex

Thermoid Co Whitehead Rd Trenton 6 N J

(Booster)

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. 20, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave.
St. Louis 14, Mo.
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

HOSE. Hydraulic (Window Lifts, Folding Tops, Seats, Power Steering, etc.) Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind

HOSE, OIL LINE-See Tubing, Oil and Gase-

HOSE, Radiator Acme Rubber Mg Co 115 Meade St Trenton N J "Acme Flexrite" Amco—See Asbestos Mg. Co. Anchor Packing Co., 401 N. Broad St., Phila delphia S, Pa. "Ankorite." Ankorite—See Anchor Packing Co. Asbestos Mg. Co., E Sabine St., Huntington, Ind. "Amco." (Flexible and moided.) Badger Mg Corp 1501 W Polk St Chicago 7 Ill (Chrome) Ill (Chrome)
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio
Camei-See H B Egan Mfg Co
Continental Rubber Works 1946 Liberty St
Erie Pa "Vitalio"
Coper Tire & Rubber Co., Lima & Western
Aves., Findlay, Ohio
Crown Products Co 5722 S 77th St Ralston TH (Chro

Neb Crushproof Tubing Co 312 Park Blvd Cleve-land 14 Ohio Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard A" Dayton Rubber Co 2242 Riverview Ave Day-Dayton Ru ton Ohio

ton Ohio Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St. Akron 18, Ohio. Durkee-Atwood Co 215 Sevenih St. N. E. Minneapolis 13 Minn "Kwik-Flex" (Flexi-

ble)
Egan Mfg Co H B 425 W Main St Muskogee
Okla "Camel" (Flexible)
Everfiex—See Everhot Products Co.
Everhot Products Co. 2001 W. Carroll Ave.,
Chicago 12, Ill. "Everfier" (Hendable.)
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio

Gates Rubber Co., 999 S. Broadway, Denver 17. Colo. "Gates Vulco." Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio

S Main St Affon 18 Unio Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. Gripper—See Rawhide Products Co. Guard A—See Dallas Mfg & Sales Co Haywood Industries P O Box 1004 Dayton 1 Ohio "Modac"

Holdfast—See Koehler Rubber & Supply Co.
J-M—See Johns-Manville.
Johns-Manville. 32 E. 46th St., New York,
N. Y. "J-M"
Koehler Rubber & Supply Co., 3365 Carnegie
Ave., Cleveland 15, Ohio. "Holdfast."
Kwik-Flex—See Durkee-Atwood Co.
Mercer Rubber Co., Hamilton Square, N. J.
Metal Hose & Tubing Co W Clinton St Dover
N. J.

N J Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio. Modac—See Haywood Industries Moore & Co., Samuel, Mantua, Ohio "Rub-

Guaker Rubber Corp., Tacony & Comiy Sts., Philadelphia 24, Pa. R/M—See Raybestos-Manhattan Inc Equip Sales Div Sales Div Rawhide Products Co., Michigan Ava., Kenil-worth, N. J. "Gripper." Raybestos-Manhattan Inc Equipment Sales Div Stratford Conn "R/M"

Div Stratford Conn "R/M"
Ridbo Laboratories Inc 211 E Harrison St
Danville III "V-T" (Flexible)
Rub-Bub—See Samuel Moore & Co
Snyder & Son Inc M L 1827 E York St Philadelphia 15 Pa "Snyder Standard"
Thermoid Co Whitehead Rd Trenton 5 N J
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York
20, N. Y.
V-T—See Ridbo Laboratories Inc
Vitalic—See Continental Rubber Works.

V-T.—See Ridbo Laboratories Inc Vitalic—See Continental Rubber Works.

HOSE, Vacuum Brake

Acme Rubber Mfg Co 115 Meade St Trentoz

Acme Rubber Mig Co 115 Meade St Trentor
N J
Aeroquip Corp 300 S East Ave Jackson Mich
Alax—See Hewitt-Robins Inc
Amec.—See Asbestos Mig Co
Asbestos Mig. Co., E. Sabine St., Huntington, Ind. "Ameo."
South Bend 25 Ind
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071
Boston 3 Mass)
Continental Rubber Works 1946 Liberty St
Erle Pa "Vitaile"
Dallas Mig & Sales Co P O Box 7181 Dallas
Tex "Guard-A"
Gates Rubber Co 999 S Broadway Denver 17
Colo "Gates Vulco"
Guard-A—See Dallas Mig & Sales Co
Haywood Industries P O Box 1004 Dayton 1
Ohio "Modac"
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Monarch" "Ajax"
Imperial Brass Mig Co 6300 W Howard St
Chicago 31 Ill
Modac—See Haywood Industries
Monarch—See Hewitt-Robins Inc
R/M—See Raybestos-Manhattan Inc
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphia 24, Pa.
Raybestos-Manhattan Inc
Quaker Rubber Corp., Rockefeller Center, 1220 Ave. of the Americas, New York
20, N. Y.
Volvac Inc 3534 W Pierce St Milwaukee 15
Wis
Vitalic—See Continental Rubber Works.

HOSE, Welding

(See also Cable, Welding)

Vitalic-See Continental Rubber Works

e Rubber Mfg Co 115 Meade St Trenton Aeroquip Corp 300 S East Ave Jackson Mich

Airco-Twin—See Air Reduction Sales Co.
Air Reduction Sales Co Socony-Mobil Bldg
150 E 42nd St N Y 17 N Y "Airco-Twin" Boston Woven Hose & Rubber Co 29 Hamp-shire St Cambridge Mass (P O Box 1071 Boston 3 Mass) Burdett Oxygen Co. of Cleveland, Inc., 2300 Lakeside Ave., Cleveland 14, Ohio.

Ave., Lakeside "Burdox."

-See Burdett Oxygen Co. of Cleve-Burdoxland, Inc.
Cincinnati Rubber Mfg Co Franklin Ave
Norwood Cincinnati 12 Ohio "Losant"
Conservo—See Hewitt-Robins Inc

Continental Rubber Works 1946 Liberty St Erie Pa "Liberty"

Continents,
Erie Pa "Liberty"
Gates Rubber Co., 395 S. Broadway, Denver
17. Colo. "Gates Vulco."
17. Folio. "Gates Vulco."
17. Colo. "Gates Vulco."

Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. Haywood Industries P O Box 1004 Dayton 1 Ohio "Modac"

Hewitt-Robins Inc 666 Glenbrook Rd Stam-ford Conn "Conservo" "Twinweld" -See Continental Rubber Works

Linde Co 30 E 42nd St New York 17 N Y
"Oxweld" (Rubber)
Losant—See Cincinnati Rubber Mfg. Co.
Manhattan—See Raybestos-Manhattan, Inc.,
Manhattan Rubber Div.
Modac—See i aywood Industries
Mulconroy Co., 54th & Jefferson Sts. Philadelphia 31, Pa. (Oxy-acetylene.)
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co., 340 N. Michigan
Ave. Chicagn 11, 111. "NCG."
Oxweld—See Linde Co
Quaker Rubber Corp., Tacony & Comiy Sts.,

Ave. Chicago II, III, "NCG."

Oxweld-See Linde Co

Quaker Rubber Corp., Tacony & Comiy Sts.,

Philadelphia 24, Ps.

Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.

"Manhattan."

Republic Rubber Div Lee Rubber & Tire

Corp Albert St Youngstown 1 Ohio

Smith Welding Equipment Corp 2633 4th St

S E Minneapolis 14 Minn

Rnyder & Son Inc M L 1827 E York St Philadelphia 25 Pa "Snyder Standard"

Termoid Co Whitehead Rd Trenton 6 N J

Termweld—See Hewitt-Robins Inc

United States Rubber Co., Rocksfeller Center, 1230 Ave. of the Americas, New York

20, N. Y.

HOSE ASSEMBLIES. Hydraulic

Eastman Mfg Co 1440 N 24th St Manitowood

HOUSINGS, Axle

American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich Clark Equipment Co., Buchanan, Mich. Crosby Co 183 Pratt St Buffalo 5 N Y Republic Steel Corp Pressed Steel Div 6100 Truscon Ave Cleveland 27 Ohio

HOUSINGS, Engine and Generator

Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis (Engine)

Bull Dog—See Jambor Tool & Stamping Co Jambor Tool & Stamping Co., 3057 N. 30tl St., Milwaukes, Wis. "Bull Dog." (Fo Ford and Chevrolet cars.)

HOUSINGS, Wheel and Fender

Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

HUB CAPS—See Caps, Hub
HUB FLANGES, PRESSED STEEL—See
Flanges, Hub (Pressed Steel)
HUB ODOMETERS—See Meters or Odometers,
Distance Recording

HUBS, STEERING GEAR-See Parts, Steer-ing Gear

(For hub flanges—see Flanges, Hub [Pressed Steel])

Budd Co 2456 Hunting Park Ave Philadelphia 32 Pa
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Cal (For truck trailers)
Kelly Mfg Co 503 Broad St Charleston 21
W Va (Locking)
Kelsey-Hayes Co 3600 Military Ave Detroit
22 Mich. fich Wheel Corp 785 E Saginaw St Lansing otor Wheel Corp 735 E Saginaw St Lansing 3 Mich huler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HUMIDITY REGULATORS-See Regulators, Humidity
HYDRAULIC COUPLINGS - See Couplings, Fluid (Machinery)

HYDRAULIC CYLINDERS—See Cylinders, Air and Hydraulic HYDRAULIC HOSE ASSEMBLIES—See Hose Assemblies, Hydraulic HYDRAULIC MOTORS—See Motors, Hy-

draulic HYDRAULIC VALVES—See Valves, Hydraulic HYDROGEN GAS—See Gas, Hydrogen (In Cylinders and Tanks)
IGNITION COIL WINDINGS—See Windings, Ignition Coil
IGNITION RESISTORS—See Resistors, Igni-

tion
IGNITION SYSTEMS, BATTERY—See Systems, Ignition (Complete)
IGNITION SYSTEMS, EMERGENCY—See
Systems, Ignition (Emergency)
IMPACT WRENCHES—See Wrenches, Portable Electric; also Wrenches, Portable Pneumatic

A.

IMPELLERS, WATER PUMP -- See Parts, Water Pump

INDEX CENTERS-See Heads, Dividing INDICATORS, COMBUSTION-See Analyzers, Combustion

INDICATORS, Speed (Machinery)

ice also Tachometers, Speed; also Counters, Revolution [Machinery])

Courters, Revolution [Machinery])

Biddle Co James G 1316 Arch St Philadelpha 7 Pa "Jagabi"

Bristol Co Waterbury 10 Conn

Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.

Jagabi—See James G Biddle Co

Martindale Electric Co., 1340 Hird Ave.,
Cleveland 7, Ohlo.

Millers Falls Co., Greenfield, Mass.

O-Z—See O. Zernickow Co.

Sticht Co., Herman H., 27 Park Place, New
York, N. Y. "Standco."

United States Taximeter Co., 514 W. 54th
St., New York 19, N. Y.

Veeder-Root, Inc., 20 Sargeant St., Hartford
2, Conn.

Weston Instruments Div of Daystron Inc
614 Frelinghuysen Ave Newark 12 N. J
Zernickow Co 0 15 Park Row New York 38
N Y "O-Z"

NDUCTION HEATERS—See Machines, In
WINTRUMENT DIALS—See Dials, Instrument Panel
INSTRUMENT PANELS—See Panels, Instrument Panel
INSTRUMENTS, Abrasive Testing
(For grinding wheels, hones, etc.)

Accelerotor—See Atlas Electric Devices Co. 4114 N. Rav

INDUCTION HEATERS-See Machines, Induction Heating

duction Heating
INDUCTION HEATING FURNACES—See
Furnaces, Induction Heating
INFLATORS, TIRE—See Compressors, Air;
Gages, Chuck (Tire Inflating)
INITIALS, ORNAMENTAL—See Monograms.
Initials and Emblems, Ornamental
INJECTION MOLDING PRESSES — See
Presses, Injection Molding

Allen Electric & Equipment Co., 2101 North Pitcher St., Kalamazoo 13F, Mich. "Syncorgraph."

INJECTION SYSTEMS, Diesel and Gasoline Engine

American Bosch Div American Bosch Arma Corp 3664 Main St Springfield 7 Mass (Diesel pumps) Bendix—See Scintilla Div Bendix Aviation

Corp CAV Fuel Injection Equipment Div of Lucas Electrical Services Inc 14820 Detroit Ave Cleveland 7 Ohio (Diesel, imported) Demco—See Micro-Precision Inc Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S. W., Grand Rapids

2100 But 2. Mich.

Mich.
 Eclipse Machine Div Bendix Aviation Corp Elmira N Y "Electrojector" (Electronic)
 Electrojector—See Eclipse Machine Div Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Roosa-Master" (Diesel)

Marvel-Schebler Products Div Borg-Warner Corp Decatur III (Gasoline) Micro-Precision Div Micromatic Hone Corp 2205 Lee St Evanston III "Demco" (Diesel)

Rochester Products Div General Motors Corp 1000 Lexington Ave Rochester 3 N Y

Roosa-Master-See Hartford Machine Screw

Co Scintilla Div Bendix Aviation Corp Sidney N Y "Bendix" (Diesel)
Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown N Y (Gasoline)
Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio

INSERTS, CLUTCH-See Corks, Brake and Clutch Insert

INSERTS, Screw Thread

Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J Hell-Coll Corp Shelter Rock Lane Danbury

Con Keenserts—See Newton Insert Co Newton Insert Co 6500 Avalon Blvd Los An-geles 3 Calif "Keenserts" Rosan Inc 2901 W Coast Highway Newport Beach Calif

Beach Calif
Roylyn Inc 620 Paula Ave Glendale 1 Calif
"Weg" (Sole distributors Airaterra 620
Paula Ave Glendale 1 Calif)
South Chester Corp Southoo Div 228 Industrial Highway Lester Pa "Southco"
Southco-See South Chester Corp.
Weg—See Roylyn, Inc.

INSERTS, Spring Leaf

(To eliminate interleaf friction need for oiling between leaf springs and to avoid squeaks)

Davis Auto Equipment Co Mono-Flex Spring Div 119 N 3rd St Reading Pa "Mono-Flex"

Detroit Gasket & Mfg Co 12640 Burt Rd
Detroit 23 Mich "Dee-Gee"
Georgia Webbing & Tape Co Tarbottom Ga
Mono-Flex—See Davis Auto Equip Co
O & B Bearing & Mfg Co 777 W 8 Mile Rd
Whitmore Lake Mich
Sturdy Products Corp 130 New York Ave
Jersey City 7 N J
Watson Co. John Warren 1924 Hunting

Jersey City 7 N J Watson Co., John Warren, 1924 Hunting Park Ave., Philadelphia 40, Pa. "Watson Silenite Damperleaves." World Bestos Div of Firestone Tire & Rub-ber Co 1112 S 25th St New Castle Ind

INSPECTION MACHINES FOR MASS PRO-DUCTION OF PARTS—See Machines, X-Ray INSPECTORS' TEST GAGES—See Gages, In-apection or Manufacturing INSTRUMENT BOARDS—See Boards, Instru-

Ment INSTRUMENT DIALS—See Dials, Instrument INSTRUMENT PANEL LAMPS—See Lamps, Instrument Panel INSTRUMENT PANELS—See Panels, Instru-

elerotor-See Atlas Electric Devices Co Accelerator—See Atlas Electric Devices Co Atlas Electric Devices Co 4114 N Ravens-wood Ave Chicago 13 fil "Accelerator" (For seat covers etc) Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich.

Allen Electric & Equipment Co., 2101 N.
Pitcher St., Kalamazoo 13F, Mich. "Syncrograph."
Electro Products Co., 445 E. 189th St., New
York SS, N. Y
Herbrand Div Bingham-Herbrand Corp Lake

& Stone Sts Fremont Ohio
& Star Equip Co 411 Washington St Otsego INSTRUMENTS, Engine Testing (FacMich "Kal-Dwell"

Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn N. J.

Lawn N. J.
King Electric Equipment Co 9123 Inman Av
Cleveland 5 Ohlo
Motoraide Corp 2400 Emerald St Philadelphia 25 Pa
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.

Syncrograph—See Allen Electric & Equip-

Weldenhoff Corp Algona Iowa Wells Mfg Corp 12 S Brooke St Fond du Lac Wis

INSTRUMENTS, Electrical Circuit

(See also Analyzers, Engine and Elec-tric Equipment, also Stands, Electric Test)

tric Equipment, also Stands, Electric Trest)

Acroset—See Electro Products Co.
Allen Electric & Equipment Co., 2101 N.
Pitcher St., Kalamazoo 13F, Mich.
Arrow Armature Co 15 Fordham Rd Boston
34 Mass
Auto-Test Inc 606 8 Michigan Ave Chicago
5 Ill "Auto-Tong"
Auto-Tong—See Auto-Test Inc
B & G—See Berg-Gibson Mfg. Co.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City R Mo. "B & C."
Bristol Co Waterbury 20 Conn
Collmaster—See Electro Products Co.
Crumbliss Mfg Co 3830 N Podlin Drive
Franklin Park III
Electro Products Co 445 E 189th St New
York 58 N Y "Trouble Shooter" "Acroset" "Collmaster"
G-E—See General Electric Co
General Cement Mfg Co 919 Taylor Ave
Rockford III "Ne-O-Lite" (Sole distributors
Speedex Mfg Co 919 Taylor Ave Rockford III")
General Electric Co Apparatus Sales Div 1
Elver Rd Scheneriday 5 N Y "G-E"

III)
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Herbrand Div Bingham-Herbrand Corp Lake
& Stone Sts Fremont Ohio
Hoyt Electrical Instrument Works Inc 42
Carleton St Cambridge 42 Mass (Sole distributors Burton-Rogers Co 42 Carleton St
Cambridge 42 Mass)
Ideal Industries Inc 1014 Park Ave. Sva. Ideal Industries, Inc., 1014 Park Ave., Syca-more, Ill.

more, Ill.
International Products & Mfg Co 1452 8
Michigan Ave Chicago 5 Ill (For voltage regulators and generators armatures and field colls)

field colls)

KRW—See K R Wilson Inc

Kal-Equip Co 411 Washington St Otsego

Mich "Kal-Reg" "Kal-Spark"

Kennedy Service Tools Co 788 Evans Ave Kennedy Service Tools Co 788 Evans Ave Akron 5 Ohio King Electric Equipment Co 9123 Inman Av Cleveland 5 Ohio Macnined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." Mapco—See Machined Parts Corp. Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. Mercury Electric Corp 719 Wyandotte St

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. Mercury Electric Corp 719 Wyandotte St Kansas City Mo Motoraide Corp 2400 Emerald St Philadelphia 25 Pa Ne-O-Lite—See General Cement Mfg Co Newnan Machine Co 25 James St East Providence R I "Nu-Ma-Co" Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 36. Ili. Nu-Ma-Co—See Newnan Machine Co Reco—See Rectifier Engrg Co Rectifier Engrg Co Rectifier Engrg Co 1803 E 7th St Los Angeles 21 Calif "Reco" Schauer Mfg Corp 4500 Alpine Ave Rossmone Ohio Silver Beauty—See Triple-A-Specialty Co. Snap-On Tools Corp 8046 28th Ave Kenosha Wis Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ili. T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Silver Beauty" Trouble Shooter—See Electro Products Co. Turnco—See Turnsignal Co 2720 W Susquehanna Ave Philadelphia 22 Pa "Turnco" Weldenhoff Corp Algona Iowa Wels Mfg Corp 12 S Brooke St Fond du Lac Wis Sun Electric Corp 3 Gateway Cen-

Wis
Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa
Wilson Inc K R Arcade N Y "KRW"
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Armature testers.)

(Including manographs, escille-graphs, etc.)

Bristol Co Waterbury 20 Conn Crosby Steam Gage & Valve Co., 18 Roland St., Boston 29, Mass. Dynagage—See Photocon Research Products. Photocon Research Products 421 N Altadena Dr Pasadena 8 Calif "Dynagage" (For static and dynamic pressure)

INSTRUMENTS, Gear Testing

Fellows Gear Shaper Co 78 River St Spring-field Vt

INSTRUMENTS, Metal Testing

(See also Machines, Testing [Metal]) Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa Brush Instrument Div of Clevite Corp 3405 Perkins Ave Cleveland 14 Ohio General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY

INSTRUMENTS, OIL TESTING-See Visco.

INSTRUMENTS, Precision Measuring, for Machine Tools

Griswold Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Scan-A-Scale." (Linear measuring.)

INSTRUMENTS, Precision Measuring for Production

Anderometer—See Micrometrical Mfg Co Autopairer—See Electro-Autosizing Machine

Div
Cleveland Instrument Co 735 Carnegle Ave
Cleveland 15 Ohio "Par-Ac" (For dimentional gaging)
Electro-Autosizing Machine Div Industrial
Gauges Corp 1500 The Plass West Englewood N J "Minitron" "Autopairer"
Federal Products Corp., 1144 Eddy St., Providence 1, R. I.

Federal Products Corp., 1144 Eddy St., Providence 1, R. I.

Merz Engineering Inc 200 S Harding St Indianapolis 7 Ind Indianapolis 7 Ind Indianapolis 7 Ind Indianapolis 7 Ind Indianapolis 7 Indianapolis 8 Indianapolis 9 Indianapolis

INSTRUMENTS, Precision Measuring for Production-continued

Minitron-See Electro - Autosizing Machine

Par-Ac-See Cleveland Instrument Co Par-Ac—See Cleveland instrument Co Proficorder—See Micrometrical Mfg Co Proniometer—See Micrometrical Mfg Co RCA Arlin—See Radio Corp of America Radio Corp of America Detroit Industrial Products 13541 Auburn Ave Detroit 23 Mich "RCA Arlin" Sheffield Corp 721 Springfield St Dayton 1

Wavometer-See Micrometrical Mfg Co

INSTRUMENTS, Precision Measuring, for Tool Rooms

(See also Blocks, Gage)
Ames Co B C 12 Ames St Waltham 54 Mass
Angle Computer Co 1709 Standard Ave Glendale 1 Calif "Studler" (Angle computers) Autopairer—See Electro-Autosizing Machine Div

DIV
Brown & Sharpe Mfg. Co., 235 Promenade
St. Providence, It. I.
Cadillac Gage Co P O Box 3806 Detroit 5
Mich "Cadillac Pla-Chek"

mich "Cadillac Pla-Chek" Chapman—See Richmont, inc. Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohlo "Indi-Ac" (For surface plate and set-ups) DoAll Co., 254 N. Laurel Ave., Des Plaines,

Electro-Autosizing Machine Div Industrial Gauges Corp 1500 The Plaza West Engle-wood N J "Electro-Autosizer" "Auto-

pairer"
Silectronic Control Corp., 1873 E. Forest St.,
Detroit 7, Mich. (Photo-electric.)
Federal Products Corp 1144 Eddy St Providence 1 R I "Testmaster"
Griswold Co F T Lancaster Pike Wayne Pa
"OPL" (Rotary dividing table optically
controlled) trolled)

controlled)
Indi-Ac—See Cleveland Instrument Co
Machine Products Corp 6771 E McNichols
Rd Detroit 12 Mich "Rotabs"
Magnafux Corp 7300 W Lawrence Ave Chicago 31 Ili "Magnafux Sonizon" (Ultrasonic thickness measuring)
Merz Engineering Co., 200 S. Harding St.,
Indianapolis 7, Ind.
Millers Falls Co., Greenfield, Mass.
Moore Products Co., H. & Lycoming Sts.,
Philadelphia 24, Pa. (Pneumatic comparator gages.)

Philadelphia 24, Pa. (Pneumatic compare tor gages.) Richmont Inc 522 S Myrtle Ave Monrovia Calif "Chapman" (Torque calibrators for hand tools) Rotabs—See Machine Products Corp Scherr Co., George, 200 Lafayette St., New York 12, N. Y. (Also imported.) Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.

hemieid Curp., the American Gage & Ma-Ohio. Ize Control Co Div American Gage & Ma-chine Co 2500 Washington Blvd Chicago 12 Ill (Micrometer testing) perry Products Inc Danbury Conn (Ultra-

Studler—See Angle Computer Co Swanson-Erie Corp 814 E 8th St Erie Pa

Swanson-Eric Corp 812 E 818 St Eric Pa (For concentricity) Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich Taft-Feirce Mfg. Co., 22 Mechanic Ave., Woonsocket, R. I. Testmaster—See Federal Products Corp Van Keuren Co., 176 Waltham St., Water-

town. Mass.

INSTRUMENTS, Rubber Testing Durometer-See Shore Instrument & Mfg.

Elastometer-See Shore Instrument & Mfg.

Co.
Olsen Testing Machine Co Tinius 2090
Easton Rd Willow Grove Pa
Shore Instrument & M'g Co 90-35 Van Wyck
Expressway Jamaica 36 N Y "Durometer"
"Elastometer"

Circle Ess—See F W Stewart Corp Stewart Corp F W 4311 N Ravenswood Ave Chicago III "Circle Ess" Sun Electric Corp 6323 Avondale Ave Chi-cago 31 III INSTRUMENTS. Speedometer Testing

INSTRUMENTS, Timing

NSTRUMENTS, 11ming
Allen Electric & Equipment Co 2101 N
Pitcher St Kalamazoo 13F Mich (Neon
and power types)
Arsco Mig. & Sales Corp., 451 Tenth Ave.,
New York 18, N. Y. (Neon type.)
Auto-Test Inc 600 S Michigan Ave Chicago
5 Ill (Neon and power types)
Cornwell Quality Tools Co Mogadore Ohio
(Power type)
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon type.)

Heyer Industries Inc 471 Cortianat St Belleville 9 N J

Kal-Equip Co 411 Washington St Otsego
Mich "Kal-Lite" (Power type)
King Electric Equipment Co 9123 Inman Ave
Cleveland a Unit.
Nasa Tool Mfg Corp 3427 Locust Corner Rd
Amelia Ohio (Neon type)
National Machine & Tool Co., 4077 Page
Ave., Jackson, Mich. (Neon type.)
Niehoff Co., C E., 1925 W Lawrence Ave..
Chicago 30, Ill. (Neon and power types.)
Petroleum Solvents Corp 331 Madison Ave
N Y 17 N Y "Siloo"
Save Lamp Co 3687 Ash St Baltimore 11 Md
(Neon type)

Save Lamp Co 3687 Ash St Baltimore 11 Md (Neon type)
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio (Neon and power types)
Siloo—See Petroleum Solvents Corp
Sittler Corp 18 N Ada St Chicago 7 III
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon type.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon type.)
7 & H Mfg Co 31 E 31st St Kansas City
3 Mo (Neon type)
Tippett Timer 5822 Helen St Jennings 21 Mo
Tungsten Contact Mfg. Co., 7311 Cottage
Ave., North Bergen, N. J.
Tungsten Mfg Co 1922 E 79th St Chicago 49
Ill (Neon and power types)
Weidenhoff Corp Algona Icwa (Neon and power types)

power types)

INSTRUMENTS, Vibration Measuring

Brush Instrument Div of Clevite Corp 3405 Ferkins Ave Cleveland 14 Ohio CEC — See Consolidated Electrodynamics

EC — See Constitution of the Corp See C Conson Sierra Vibrodyne-chine Co

INSULATING PADS - See Pads, Insulation (Heat, Cold and Sound)
INSULATING PAPER—See Faper, Insulating

INSULATION, For Electrical Parts

(Liquid)

(Liquid)
Acra Seal—See Radiator Specialty Co
Barton Products Co 1891 N Winnebago Ave
Chicago 47 Ill
Chemical Products Corp King Philip Rd East
Providence R I "Chem-o-sol" (Ignition)
Dow Chemical Co Midland Mich
Dow Corning Corp Middand Mich
Dupli-Color Products Co 2440 S Michigan
Ave Chicago 16 Ill "Dupli-Color Carix"
(For ignition systems)
Electricote—See Watta-Wagner Co.
Ensign Products Co., 3528 E. 76th St., Cleveland S., Obio
Heet Div of DeMert & Dougherty Inc 3001
W 47th St Chicago 32 Ill "Pib"
Ignition-Ite Products Co P O Box 373
Downey Calif (For ignition systems)

Ignition-ite Products Co P O Box 273
Downey Calif (For ignition systems)
Ignition Seal—See Radiator Specialty Co
Krylon Inc Ford & Washington Sts Norristown Pa (For ignition wiring, battery

terminals, etc) ee Polish Mfg Co 1399 Utica Ave Brooklyn

3 NY
M-M-A Inc Coho Bldg Lancaster Pa "Sprit-zit-Color-Spra"
Pib—See Heet Div of DeMert & Dougherty

Plasti-Kote Inc 9801 Harvard Rd NW Cleve-Plasti-Kote Inc 9801 Harvard Rd NW Cleve-land 5 Ohio (For ignition systems)
Porter Mig & Supply Co 2836 Sunset Blvd
Los Angeles 26 Calif (For ignition systems)
Radiator Specialty Co 1400 W Independence
Blvd Charlotte 1 N C "Acra Seal" "Igni-tion Seal" (For ignition systems)
Reynolds Ink Inc 4500 Euclid Ave Cleveland
3 Ohio "Sherolite" (Ignition systems)
Sherolite—See Reynolds Ink Inc

Sherolite (Ignition systems)
Sherolite—See Reynolds Ink Inc
Shortstop—See Zip Abrasive Co
Spritzit-Color-Spra—See M-M-A Inc
Stabond—See American Latex Products Corp
Sure-Rite—See Warehouse Dist Co
V-O Mfg Co 13165 Sherman Way North
Hollywood Calif (Ignition)
Vulcabond—See American Latex Products
Corp
Warehouse Distribute

Corp Warehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite" (For ignition systems) Watts-Wagner Co 288 Frelinghuysen Ave Newark 5 N J "Ellectribute" (For Ignition systems etc) Wolfe-Kote Co 1225 N 8th St Sheboygan Wis Zip Abrasive Co 1260 W 9 St Cleveland 13 Ohio "Shortstop" (Ignition system)

Electro Products Co 445 E 189th St N Y 58

N Y (Power)
N Y (Power)
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich Power type)
Herbrand Dlv Bingham-Herbrand Corp Lake
& Stone Sts Fremont Ohio (Power type)
Heyer Industries Inc 471 Cortlandt St Belleville 9 N J

Nale Found Co 411 West House Co 412 West House Co 413 West House Co 413 West House Co 413 West House Co 414 West House Co 415 West House

Mart Chicago III (Hair and feit)
Armstrong Cork Co industrial Div Lancaster
Pa "Armstrong" (Feit paper; "Mobil-Roll"
fiberglas for trailers)
Arvey Corp., 640! E. Nevada Ave.. Detroit
34, Mich. "Nodrum," "Reflex." (Feit.)
Auburn Mig. Co., Fease Ave. & Stack St.,
Middletown. Conn.

Middletown, Conn.

Barley-Earhart Corp Portland Mich (Felt)

Burlington Mills Inc., Burlington, Wis. "BurTex." (Plastic coated trunk lining.)

Bur-Tex-See Burlington Mills. Inc.

Cellusede Products Inc 501 N Madison St.

Rockford Ill (Flock)

Conewago—See Keystone Roofing Mfg Co.

Continental-Diamond Fibre Corp Newark 10

Del "Vulcoid"

DG—See Detroit Gasket & Mfg. Co.

Detroit Gasket & Mfg. Co., 12640 Burt Rd.

Detroit 23. Mich. "DG."

Dow Chemical Co. Midland Mich "Fibocel"

Dow Chemical Co Midland Mich "Ethocel" & "Styrofoam" (Expanded polystyrene) Ethocel—See Dow Chemical Co Fibergias — See Owens-Cor.ing Fibergias

Corp Flintkote Co 30 Rockefeller Plaza New York 20 N Y "Syntex" (Felt) Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Plastic and hard fibre) Fyberoid-See Wilmington Fibre Specialty

Co Gustin-Bacon Mfg Co 210 W 10th St Kansas Cltv 5 Mo "Ultralite" (Glass fiber for trailers and buses; "Ultrafine" glass fibre for sound absorbing; "Amberlite" organic fibre for sound absorbing; "Satinaire B" organic and synthetic fibre for sound absorbing or sound absorbing or

sorbing)
Johns-Manville 22 E 40th St New York 18
N Y "Spintex" (Mineral wool)
Keystone Roofing Mfg Co Franklin St & PRR
York Pa "Conewago" (Paper)

Super-Fine

Keystone Roofing Mfg Co Frankiin St & York Pa "Conewago" (Paper)
L O F Glass Fibers Co 1810 Madison Toledo Ohio "Microlite" "Super-I "Microtex" (Glass wool) Microlite—See L O F Glass Fibers Co Mobil-Roll—Armstrong Cork Co Nodrum—See Arvey Corp.
Owens-Corning Fiberglas Corp Nat Bank Bidg Toledo 1 Ohio "Fiberglas" (Fibroug glass)

Bank Bldg Toledo 1 Ohlo "Fiberglas" (Fibrous glass)
Pittsburgh Plate Glass Co Fibre Glass Div 1 Gateway Center Pittsburgh 22 Pa "Pittsburgh Superfine" (Fibre glass)
Reffex—See Arvey Corn.
Royalite—See United States Rubber Co Rubatex Div Great American Industries Inc Bedford Va (Cellular rubber)
Ruberoid Co 307 N Michigan Ave Chicago 1 III (Feit)

Ruberold Co 307 N Michigan ave Ill (Felt)
Satinaire B—See Gustin-Bacon Mfg Co Seaman Products Div of Seaman Paper Co 1236 Sherman Ave Evanston Ill "Seapak" Seapak—See Seaman Products Div Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (Fiber glass.) Spaulding Fibre Co., 310 Wheeler St., Tona-wanda, N. Y. "Spauldo." (Paper, for motors.)

pauldo-See Spaulding Fibre Co.

Spintex—See Johns-Manville Styrofoam—See Dow Chemical Co Super-Fine—See L O F Glass Fibers Co Syntex—Flintkote Co Syntex-Flintkote Co Ultrafine-See Gustin-Bacon Mfg Co

Ultralite—See Gustin-Bacon Mfg Co Ultralite—See Gustin-Bacon Mfg Co United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. "U. S. Windlace." (Plastic foam; "Royalite" plastic sheet for bodies) Western Felt Works 4021 W Ogden Ave Chi-cago 23 Ill (Felt)

Wilmington Fibre Specialty Co New Castle Del "Fyberoid"

INSULATION, Heat and Sound (Liquid)

(For underbody, body panels, etc.) inderson-Prichard Oil Corp 1000 Liberty Bank Bldg Oklahoma City 2 Okla "Apce-seal" (Underbody) Apcoseal—See Anderson-Prichard Oil Corp

Aposseni—see Anderson-Friedard Oil Corp.
Asbest-O-Seal—See Steelcote Mfg. Co.
Battenfield Grease & Oil Corp 3148 Roanoke
Rd Kansas City 8 Mo (Underbody)
Borden Chemical Co Div of Borden Co 350
Madison Ave N Y 17 N Y "Placco" (Underbody)

derbody)

derbody)

Braemul—See Service Industries

Carborundum Co Buffalo Ave Niagara Falls

N Y "Red-I-Brand" (Body)

Carey Mg Co Philip Lockland Cincinnati O

"Carey Automotive Undercoater" (Underbody)

ellusede Products Inc 501 N Madison St IRONS, Soldering (Electric)

Rockford III (Flock)
Daubert Chemical Co 333 N Michigan Ave
Chicago I III "Fendix" "Nox-Sound"
"Protek-Coat" (Underbody)
Ditzler Color Div., Pittsburgh Plate Glass
Co., 8000 W. Chicago Ave., Detroit 4, Co., 8000 W. Mich. Underbo Ensign Products land 5 Ohio (I .000 W. Cunderbody.) CUnderbody.) Products Co 3528 E 76th St Cleve-

Ensign Products Co 3528 E 76th St Cleve-land 5 Ohio (Underbody) Fendix—See Daubert Chemical Co Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. Gibson-Homans Co 2366 Woodhill Rd Cleve-land O (Underbody) Hutson Div Gibson-Homans Co Railroad & Institute Sts Convers Ga (Underbody) Insulmat—See J W Mortell Co Lion Oil Co. Lion Oil Bids., El Dorado, Ark. "Lion," "Nokorode." (Underbody.) Moore & Co., Sainuel, Mantua, Onio, "Rub-Bub."

Moore & Co., Samuel, Mantua, Omo. "Rub-Bub."
Mortell Co., J. W., 550 N. Hobbie Ave., Kankakee, Ili. "Insulmat," "Mortex." (Asphalt
type for underbody, body panels, etc.)
Mottex—See J. W. Mortell Co.
Nokorode—See Llon Oil Co.
Nokorode—See Llon Oil Co.
Nox-Sound—See Daubert Chemical Co
Pennsylvania Refining Co Butler Savings &
Trust Blidg Butler Pa (Underbody)
Pioneer Products Div of Witco Chemical Co
75 E Wacker Drive Chicago 1 Ill
Placco—See Borden Chemical Co
Presstite-Keystone Engrg Products Co 3900
Chouteau St St Louis 10 Mo (Underbody)
Protek-Coat—See Daubert Chemical Co
Rub-Bub—See Samuel Moore & Co
Rub-Bub—See Samuel Moore & Co
Service Industries 2103 E Somerset St Philadelphia 34 Pa "Braemul" (Underbody)
Steelcote Mfg. Co. 3418 Gratiot Ave., St.
Louis 3, Mo. "Asbest-O-Seal." (Underbody.)
Vibradamp Corp 4401 Page Rd Jackson Mich
Witco Chamical Co. 75

Vibradamp Corp 4401 Page Rd Jackson Mich Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, III. "Witcote." Chicago 1, Ill. "Witcote." Witcote-See Witco Chemical Co.

INSULATION, LAMINATED (PHENOLIC, ETC.)—See Plastics—Laminated INSULATION, MOLDED (PHENOLIC, ETC.)—See Plastics—Molded INSULATORS, R U B B E R S H O C K — See Shackles, Spring; also Mountings, Rubber Insulated

INSULATORS, Spark Plug

Frenchtown Porcelain Co 8th & Harrison Sts Frenchtown N J Sealtight Corp 228 First St N E Cedar Rapids Iowa

INTERCOOLERS

Vates-American Machine Co Beloit Wis

IRON, Alloyed Cast

Campbell Wyant & Cannon Foundry CoMuskegon Mich "Proferall"
Centralloy—See Centrifugal Foundry Co.
Centrifugal Foundry Co 1367 W Sherman
Blvd Muskegon Mich "Centralloy" (For
cylinder sleeves and piston rings)
Erie Malleable Iron Co 609 W 12th St Erie
Pa "Ermailte"
Ermailte—See Erie Malleable Iron Co.
Frank Foundries Corp 2020 Third Ave
Moline Ill "Frankite"
Frankite—See Frank Foundries Corp.
Grede Foundries Inc 1320 S First St Milwankee I Wis
Froferall—See Campbell, Wyant & Cannor
Foundry Co.

IRON, Pig

Republic Steel Corp 1441 Republic Bldg Cleveland 1 Ohio

IRON CASTINGS-See Castings, Gray Iron IRONS, BODY-See Hardware, Automobile and Truck Body

IRONS, Folding Seat

Eberhard Mfg. Co., Div. Eastern Malicable Iron Co., 2784 Tennyson Rd., Cleveland 4.

IRONS, Soldering (Acetylene)
Dockson Corp 3839 Wabash Ave Detroit 8

Mich ss Tool Co 5251 Pattison Ave St Louis 10 Mo Linde Air Products Co., 30 E. 42nd St., New York, N. Y. "Prest-O-Lite." Prest-O-Lite—See Linde Air Products Co. Sight Feed Generator Co., West Alexandria, Ohio.

American Beauty—See American Electrical Heater Co. American Electrical Heater Co., Woodward, Cass & Burroughs Aves. Detroit 2, Mich. "American Beauty." Dockson Corp 3839 Wabash Ave Detroit 8 Mich.

Mich G-E-See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Harmic-See P Wall Mfg Co Ideal Industries Inc 1014 Park Ave Syca-

more, Ill.

Kwikheat Mfg. Co., 2732 San Fernando Bidg., Glendale 4, Calif.

Lenk Mfg Co Franklin Ky
Linde Co 30 E 42nd St New York 17 N Y JOINTS, Ball
"Prest-O-Lite"

Luma Electric Equipment Co., P. O. Box 132 Toledo 1, Ohio. Mercury—See Vulcan Electric Co.

Snap-On Tools Corp 8046 28th Ave Kenosha Wis Stanley Tools, 111 Elm St., New Britain

Conn. Trig-R-Heat-See P Wall Mfg Co

Turnco-See Turnsignal Co. Turnsignal Co 2720 W Susquehanna Ave Philadelphia 21 Pa "Turnco"

Philadelphia 21 Fa Turico Vulcan Electric Co., 88 Holten St., Danvers. Mass. "Vulcan," "Mercury" & "Jackson." Wall Mfg Co P P O Box 71 Grove City Pa "Harmic" & "Trig-R-Heat" Weller Electric Corp 601 Stone's Crossing Rd Easton Pa

Wen Products Inc 5806 Northwest Hwy Chi-Zephyr Mfg Co 201 Hindry Ave Inglewood Calif (Electric)

IRONS, TOP-See Hardware, Automobile and Truck Body

ISOLATORS. Vibration Absorption (Machinery)

Controls Inc 702 Pleasant St Water-town 72 Mass "Barrymount" Bushings Inc 4358 Coolidge Highway Royal Oak Mich "Vibro-Leveller" Elasto-Rib—See Korfund Co

Korfund Co 48-02 32nd Pl L I City 1 N Y
"Korfund" "Vibro-Isolators" "VibroDampers" "Elasto-Rib"

Vibro-Dampers—See Korfund Co Vibro-Isolators—See Korfund Co Vibro-Leveller—See Bushings Inc Western Felt Works 4021 W Ogden Ave Chicago 23 Ill "Westerb" (Felt)

(See also Shafts. Propelle

JACKS, Hydraulic and Mechanical

Auto Specialties Mfg Co 643 Graves St St Joseph Mich

JAPANNING DRYERS-See Dryers, Japan-ning and Varnish

JAWS, Face Plate (Portable)

Bullard Co 286 Canfield Ave Bridgeport 9

Skinner Chuck Co 95 Edgewood Ave New Britain Conn

JIG BUSHING-See Bushings, Jia JIGS-See Dies, Jigs, Tools and Fixtures

IIGS, Connecting Rod Aligning

Ammco Tools, Inc., 2:00 Commonwealth Ave., North Chicago, Ill. KRW—See K R Wilson Inc

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich St Jackson Mich Lee Co, K. O., Congress at First Ave., S. E. Aberdeen, S. D. Lisle Corp., 809 F. Main St., Clarinda, Iowa. Miller Mfg Co 17640 Grand River Ave Detroit 27 Mich Olson Co Thomas C 609 E Washington Ave Madison 3 Wis

Madison 3 Wis Shepard-Thomason Co 2023 W Gage Ave Los Angeles 47 Calif "Thomason" Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass. Storm-Vulcan Inc 2225 Burbank St Dallas 19 Tex

Sunnen Products Co., 7910 Manchester Ave.,

St. Louis 17, Mo.
Thomason—See Shepard-Thomason Co.
Wilson Inc K R Arcade N Y "KRW"

JIGS, Drill

C U J—See Cleveland Universal Jig Co. Cleveland Universal Jig Co 13328 St Clair Ave Cleveland 10 Ohio "C U J" Hoefer Mfg. Co., Chicago & Jackson Sts., Freeport, III

Freeport, III.
Pioneer Aluminum Inc 5251 W Imperial
Highway Los Angeles 45 Calif
Slewek Tool Co., 2862 E. Grand Blvd., Detroit
2. Mich

z, Mich Woodworth Co., N. A., 1300 E. Nine Mile Rd., Detroit 20, Mich "Woodworth Cone-Lok." Zagar Tool Inc 24000 Lakeland Bivd Cleve-land 23 Ohio

JIGS, PISTON ALIGNING—See Jigs, Connect-ing Rod Aligning

(For spark and throttle connections) Attwood Brass Works Inc 308 Douglas St N W Grand Rapids Mich Dorman Products Inc 1904 Sycamore St Cin-cinnati 2 Ohio (Throttle) Edelman & Co., E., 2332 Logan Blvd., Chi-caga 47, Ill

Hill Nut Co 2620 W Flournoy St Chicago 12

Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y Superior Ball Joint Corp 8890 Trier Rd Ft Wayne Ind

wayne Ind Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio Tourek Mir Co J J 1901 S Kilbourn Ave Chi-cago 23 Ill

JOINTS, Power Take-off

Cleveland Steel Products Corp 16025 Brook-park Rd Cleveland 35 Ohio Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Snicer"

Spicer"

Gray & Prior Machine Co 614 Windsor St Hartford Conn Muncle Parts Mfg Co 2601 S Jefferson St Muncle Ind Neance Parts

Muncie Ind Neapco Products Inc South & Cross Sts Pottstown Pa Precision Universal Joint Corp 615 S Call-fornia Ave Chicago 12 Ill Republic Gear Co 2197 Beaufait Ave Detroit 7 Mich

Amen Spicer—See Dana Corp Western Automotive Co 2300 S Parkway Chi-cago 16 Ill "Wesco" Wesco—See Western Automotive Co

JOINTS, Swivel

Chiksan Co 330 N Pomona Ave Brea Calif

(See also Shafts, Propeller; see also Couplings, Flexible)

Accurate Products Inc 125 N Spring St In-

Accurate Products Inc 135 N Spring St Indianapolis Ind
Alco—See Alloy Mfg Co
Alloy Mfg Co 2307 S Shields Ave Chicago 16
Ill "Alco" "Alloy" "Quality Built"
Almetal—See Detroit Bevel Gear Co
American Automotive Froducts Co 1818 S
Wabash Ave Chicago 16 Ill
Bendix Products Div Bendix Aviation Corp
South Bend 20 Ind "Bendix Neiss"
Blood Bros—See Rockwell-Standard Corp
Universal Joint Div
Boston Gear Works Div Murray Corp 14
Hayward St Quincy 71 Mass
Cleveland Steel Froducts Corp 16025 Brookpark Rd Cleveland 35 Ohip 16025 BrookSpicer
Detroit Universal Div Chrysler Corp 6455
Kingsley Ave Dearborn Mich

Detroit Universal Div Chrysler Corp 6455
Kingsley Ave Dearborn Mich
Detroit Bevel Gear Co 8130 Jos Campau Ave
Detroit 11 Mich "Almetal"
Gear Grinding Machine Co., 3901 Christopher
Ave., Detroit 11, Mich. "Rzeppa."
Hy-Power—See Lion Auto Parts & Mfg Co
Imco Mfg & Sales Co 10 E Lafayette Ave
Baltimore 2 Md "U J S"
Lempco Products Inc 6490 Dunham Rd Bedford Ohio (Sole distributors Lempco Automotive Inc 2958 E 55th St Cleveland 27
Ohio)



Circle 236 on Inquiry Card for more data

JOINTS, Universal (Auto)-continued

Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power" Mechanics Universal Joint Div., Borg-War-ner Corp., 2030 Harrison Ave., Rockford,

III.
Merit Products Co 121 W Florence Ave Los
Angeles 3 Calif
Moritex—See Morse Chain Co
Morse Chain Co Ithaca N Y "Morfiex"
Motive Equipment Mfrs., inc., 5253 W, Roosevelt Rd., Chicago 66, III. "Pilot," "National"

Motor Master Products Corp PO Box 96 De-

nance Ohlo
Neapco Products Inc South & Cross Sts
Pottstown Pa
New Process Gear Div Chrysler Corp 500
Plum St Syracuse N Y "Tracta" Parco-See Parts Mig Co Parts Mig Co 311 W 66 St N Y 23 N Y KILNS, Oil, Gas and Electric

Parts Mig Co 311 W 66 St N Y 23 N Y
"Parco"
Parco"
Pilot—See Motive Equipment Mfrs., Inc.
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.
Quality Bullt—See Alloy Mfg Co
Republic Gear Co 2197 Beaufait Ave Detroit
7 Mich

7 Mich Rockwell-Standard Corp Universal Joint Div 1 Glass St Allegan Mich "Blood Bros" Root Co B M Prospect & Sherman Sts York

Pa
Izapna—See Gear Grinding Machine Co.
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
Spicer—See Dana Corp
Stimmel Winch Co. 37-24 33rd St., Long
Island City 1, N. Y.
Stow Mfg. Co., 445 State St., Binghamton,
N. Y.
Tracta—See New Process Gear Div Chrysler

Tracta—See New Flores
Corp
U J S—See Imco Mfg & Sales Co
Wesco—See Western Automotive Co
Western Automotive Co 2300 8 Parkway
Chicago 16 Ill "Wesco"
Wheel Parts & Mfg Co 352 Fourth Ave
N Y 10 N Y "National"
Williams Engineering Corp., 224 Park Ave.,
Baltimore, Md.

JOINTS, Universal (Machinery)

OINTS, Universal (Machinery)
Atlas—See Gray & Prior Machine Co
Baush Machine Tool Co 156 Wason Ave
Springfield 7 Mass
Detroit Bevel Gear Co 8130 Jos Campau
Ave Detroit 11 Mich
Fox Engrg Co 1336 Francis St Jackson Mich
Gray & Prior Machine Co 614 Windsor St
Hartford Conn "Atlas"
Lovejoy Flexible Coupling Co 5000 W Lake
St Chicago 44 Ill
Sutton Engrg Co 234 S Potter St Bellefonte
Pa

JUNCTION BOXES-See Boxes, Junction (Auto)
KEEPERS, Valve—See Keys, Valve Stem
KEY CUTTING MACHINES—See Machines,
Key Cutting

KEYS, Machine

Gillen Co John 2540 S 50th Ave Cicero 56 Ill Morton Mfg. Co., Broadway & Hoyt St., Muskegon Heights, Much. Set Screw & Mfg Co 16 Main St Bartlett Ill (Hexagon and fluted socket) Standard Automotive Parts Co 660 Nims St Muskegon Mich Standard Steel Specialty Co., W. Mayfield Rd., Beaver Falls, Pa.

KEYS, SPLIT-See Pins, Cotter

KEYS, Switch and Starting

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.

KEYS, Valve Stem

Aluminum Industries Inc 3670 Werk Rd Cin-Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio
Buil Dog-See Jambor Tool & Stamping Co.
Ertel Products Corp Div of Ertel Mfg Corp
1400 E 20th St Indianapolis Ind
Jambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee 10, Wis. "Buil Dog."
McQuay-Norris Mfg. Co. 2320 Marconi St.,
St Louis Mo
Preferred Electric & Wire Co Bush Terminal
Ridg No & Brooklyn 22 N V
Raymond Mfg Div Associated Spring Corp
226 S Center St Corry Pa
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Toledo Steel Products Div-Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohio

KEYS, Woodruff

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel) Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio Gillen Co John 2540 S 50th Ave Cicero 50 Ill Morton Mfg. Co., Broadway & Hoyt St. Muskeeon Heights, Mich. Perfect Parts, Inc, 42 W 23rd St New York 10 N Y

N Y
Preferred Electric & Wire Co Bush Terminal
Bldg No 8 Brooklyn 32 N Y
Standard Automotive Parts Co 660 Nime St
Muskegon Mich
Standard Steel Specialty Co., W. Mayfield
Rd., Beaver Falls, Pa.

KEYSEATERS—See Machines, Keyseating KEYWAY CUTTERS—See Cutters, Keyway

Electric Furnace Co 539 Wilson Ave Salem Ohio

KING PINS-See Pins, King

KNIVES, Metal Cutting Machine

Cleveland—See Hill Acme Co Cleveland Knife Div Knife Div Espen-Lucas Machine Works Front St. & Girard Ave Philadelphia 23 Pa Hill Acme Co Cleveland Knife Div 1201 W 65th St Cleveland 2 Ohlo "Cleveland" Meyers Co W F 1017 14th St Bedford Ind Meyers C

KNOBS, Steering Wheel, Instrume Panel, Radio, Windshield Wiper, etc. Instrument

Alco—See American Insulator Corp American Insulator Corp New Freedom Pa "Alco" (Regulator handle gear shift lever ash receiver etc) Lusco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Perfection." (Steer-ling wheal) American

ing wheel.)

ting wheel.)
Champ-Itens Inc 6191 Maple Ave St Louis
14 Mo (Window)
Chicago Moided Products Corp 1020 N Kolmar Ave Chicago 51 III (Plastic molded)
Cole-Hersee Co., 20 Old Colony Ave., Boston
27, Mass. (Instrument panel, radio, wind-

27. Mass. (Instrument panel, radio, wind-shield wiper, etc.) ashKnob-See National Autocraft Mfg Co MP—See Detroit Master Products Co etroit Master Products Co 16490 Woodward Ave. Detroit 3 Mich "DMP" (Gear shift

lever) Dimco-Gray Co 207 E Sixth St Dayton 2 Ohlo

(Gear shift lever)
G M Co Mfg Inc 13-08 43rd Ave Long Island
City L I N Y (Door leek)
Garfield Mfg Co Garfield N J (Gear shift lever)

Hollywood Accessories Inc 11917 W Olympic Blvd Los Angeles 64 Calif (Steering wheel and dash control) KranKnob—See National Autocraft Mfg Co Kurz-Kasch, Inc 1415 S Broadway, Day

Kurz-Kasch, Inc. 1415 S. Hrosdway, Day-ton 1, Ohio. (Radio, gear shift lever and instrument.) LoKnob—See National Autocraft Mfg Co National Autocraft Mfg Co 2710 N Orange Ave Orlando Fla "KranKnob" (Window; "LoKnob" door locking; "DashKnob" in-strument panel; "Push-On" window crank)

Out-O-Way—See Santay Corp Perfection—See Casco Products Corr Powercraft Corp 2515 S Wabash Ave C Chicago

16 III "Powerfo" (Steering wheel)
Powerfo—See Powercraft Corp
Push-On—See National Autocraft Mfg Co
Santay Corp. 351 N Crawford Ave. Chicago 24, III. "Out-O-Way." (Steering
wheel.)

wheel.)
Sinko Mfg & Tool Co 3135 W Grand Ave
Chicago 22 Ill (Steering wheel)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Gear shift lever)

LP-GAS ADAPTORS, REGULATORS AND VAPORIZERS—See Regulators, Adaptors and Vaporizers, LP-Gas
LP-GAS CONVERSION UNITS — See Converters L-P Gas for Gasoline Engines

LACERS, Belt

Clipper Belt Lacer Co., 974 Front Ave., N. W., Grand Rapids 2, Mich. Rhoads & Sons J E 2100 W 11th St Wil-mington 99 Del "Tannate" Tannate-Sec J. E. Rhoads & Sons.

LACING, Hood (Fabric)

Anchor Webbing Co., P. O. Box 1624, Providence, R. I.

Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I Barley-Earnart Corp., Portland, Mich. Belco Industries, Inc., 1628 Bates St., Indian-

Belco Industries, Inc., 1928 Backer apolis 1, Ind.
Black Diamond—See Uniform Hood Lace Co.
Hope Webbing Co., Providence 1, R. I.
Jalean—See Uniform Hood Lace Co.
Silenite—See John Warren Watson Co
Stevens Co., A. T., 118 E. 28th St., New
York 16, N. Y.
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond,"

'atson Co., John Warren, 1924 Hunting Park Ave Philadelphia 40 Pa "Silenite"

LACING MACHINES, BELT-See Lacers, Belt

LACQUER, Auto, Truck and Bus

ACQUER, Auto, Truck and Bus
A.N.L.—See R. N. Nason & Co.
Acme Quality Faints Ine 8250 St Aubin Ave
Detroit 11 Mich "Proxilin"
American Lacquer Solvents Co., Perkiomen
Junction, Phoenixville, Pa. "Co-Loidal-Ac."
American Paint Co 902 Larrabee St Chicago
10 Ill (For commercial vehicles)
Automotive Finishes, Inc., P. O. Box 457,
Northwestern Station, Detroit 4, Mich.
"C. Bell"

"C-Bel" C-Bel-See Automotive Finishes Inc Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glid-den Quality." Co-Loidal-Ac-See American Lacquer Sol-

Co-Loidal-Ac-See American Lacquer Solvents Co.
Daconite—See James B. Day & Co.
Day & Co., James B., 1872 Clybourn Ave.,
Chicago 14, Ill. "Daconite."
Ditz-Lac-See Ditzler Color Div., Pittsburgh
Plate Glass Co.

Plate Glass Co.
Ditzler Color Div., Pittsburgh Plate Glass
Co., 8000 W. Chicago Ave., Detroit 4, Mich.

"Ditz-Lac."

Duco—See E. I. du Pont de Nemours & Co. du Pont de Nemours & Co E I Finishes Div Refinish Sales Wilmington 93 Del "Duco"

"Traffa"

Chestnut St., New-"Lucite"
"Lucite"
Flood & Conklin Co., 132 Chestnut St., New-ark S. N. J.

ark 5, N. J. Forbes Finishes Div., Pittsburgh Plate Glass Co. 3890 W. 143rd St., Cleveland 11, Ohio. "Nitroloid." (Nitro-cellulose and Ethyl cel-lulose")

Glidden Co 900 Union Commerce Bldg Cleve-land 14 Ohio

land 14 Ohio
Glidden Quality—See Campbell Paint &
Varnish Co., Div Glidden Co.
Horn Co A C Products Finishes Div 10th St
& 44th Ave Long Island City 1 N Y
Ilbronze—See Illinois Bronze Powder Co.
Illinois Bronze Powder Co., 2015 S. Clark St.,
Chicago 16. Ill "Illbronze."
Lucite—See E I du Pont de Nemours & Co
Martin-Senour Co 2500 Senour Ave Chicago

§ Ill

-See Pittsburgh Plate Glass Co

Mimax—See Pittsburgh Plate Glass Co Paint Div Nason & Co R N 151 Potrero Ave San Fran-cisco 3 Calif "A.N.L." Nik-O-Lac-See Nikolas & Co. Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, III. "Nik-O-Lac." Nitroloid—See Porhes Varnish Co. Opex—See Sherwin-Williams Co. Oxidermo Producta, Inc., Springport, Mich. P & S—See Pierce & Stevens Chemical Corp Pierce & Stevens Chemical Corp 710 Ohlo

P& S-See Pierce & Stevens Chemical Corp Pierce & Stevens Chemical Corp 710 Ohio St Buffalo N Y "P & S" Pittsburgh Plate Glass Co Paint Div 1. Gateway Center Pittsburgh 22 Pa "Mimax" Plasti-Kote Inc 9801 Harvard Rd NW Cleve-land 5 Ohio

Prozin-See Acme Quality Paints Inc R-M-See Rinshed-Mason Co. Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich. "R-M"

10. Mich. "R-M"
Sherwin-Williams Co 101 Prospect Ave N W
Cleveland 1 Ohlo "Opex"
Standard-Toch Chemicais Inc 2600 Richmond
Terrace Staten Island 3 N Y "Stand-Lac"
Stand-Lac—See Standard-Toch Chemicals

Zac-Lac Paint & Lacquer Corp 350 Simp-son St NW Atlanta 13 Ga

LACQUER, STRESS ANALYSIS—See Compounds, Metal Testing

LAG SCREW SETTERS—See Setters Stud, Nut, Bolt and Lag Screw LAMINATED FIBRE—See Fibre, Laminated LAMINATED PHENOLIC PARTS—See Plas-

LAMINATED PHENOLIC PARTS—See Plastics—Laminated
LAMINATED WOOD—See Panels, Plywood
LAMP PARTS AND FITTINGS—See Connectors, Lamp; Lamps or Bulb, Miniature Incandescent; Lenses, Lamp; also Sockets,
Lamp (Electric)

LAMPS, Back-Up, Cowl, Dome, Fender, Tail, Parking, and Clearance

Tail, Parking, and Clearance
Akron Specialty Mfg Co 119 Ira Ave Akron
1 Ohio (Marker)
American Automatic Devices Co Harrison
Throop & Congress Sts Chicago 7 Ill "King
Bee Hy-Power" (Tail parking dome
marker and clearance)
Anthes Force Oller Co Ft Madison Iowa
(Tail parking and clearance)
Apco Mossberg Co Lamb St Attleboro Mass
"Stream-A-Lite" (License plate)
Arrow Safety Device Co Mt Holly N J (Tail
dome marking parking and clearance)
Auto Lamp Mfg Co 2908 S Indiana Ave Chicago 9 Ill "Pathfinder" (Clearance, marker,
license and back-up)
Auto-Lite—See Electric Auto-Lite Co
Berg Mfg & Sales Co 1712 S Michigan Blvd
Chicago 16 Ill "Sho-Glo" (Clearance for
trailers)
Betts Machine Co 1800 Pennsylvania Ave
W warren Pa "Warren Snap Seal" (Clearance)

Betts Machine Co 1806 Pennsylvania Ave W Warren Pa "Warren Snap Seal" (Clearanee) Bolser Corp S Main St Cedar Falls Iowa (Clearanee and marker) Burgess Battery Co Ft of Exchange St Freeport III "Trailer-Lite" (Tail) Capson Mfg Co 2555 Fullerton Ave Chicago III (Dash for trucks)
Catseye—See Columbus Metal Products Co. Cole Automotive Products Co P O Box 56 Alfred St Station Detroit 1 Mich "Merit" (Clearanee tail and marker for trucks trailers and buses)
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Catseye." (Dome, marker. clearance, backup, etc.)
Dietz Co R E 225 Wilkinson St Syracuse 1 N Y (Dome, back-up, tail, parking, running board and clearance.)
Do-Ray Lamp Co., 1488 S. Michigan Ave. Chicago 5, III. "Swa-Bak."
Eagle Brand—See U. S. Tool & Mfg. Co. Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite" (Cowl fender tail and clearance)
Electric Service Works Delta Star Electric Div H K Porter Co 17th & Cambria Sts Philadelphia 32 Pa "Keystone" (Marker license plate dome engine compartment step and fare box)
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio "G-E" (Backup dome tail parking clearance Instrument signal etc)
Griffin Lamp Co 401 S Third St Hamilton Ohio (Clearance dome back-up tail marker; fuel compartment lamp)
Grote Mfg Co Lafavette & Grandview Aves Bellevue Ky (Tail back-up dome marker clearance combination stop tail and license bracket)
Guide Lamp Div General Motors Corp 25th

bracket)
Guide Lamp Div General Motors Corp 25th
St & Arrow Ave Anderson Ind (Back-up
dome fender tail license plate parking and
clearance)
H & P Die & Stamping Co 12345 Triskett
Rd Cleveland 11 Ohio (Marker, for bus,
truck and trailer)
Hall Lamp Co C M 1035 E Hancock Ave E
Detroit Mich (Dome tail backup and parking)

Detroit Mich (Dome tail backup and parking)

Hill (Infra-red)
Westinghouse—See Lamp Div W
Electric Corp
American Automatic Devices (
Throop & Congress Sts Chicago
Bee Sealed Beam'
Arno-Lite—See Arnoit Corp

riline—See Rowe Industries
riline—See Rowe Industries
liywood Accessories Inc 11917 W Olympic
livd Los Angeles 65 Calif (License plate)
D Lamp Co 1910 Elm St Cincinnati 10
hio (Back-up fender dome tall parking
nd clearace)

and clearance)
-S-See Kilborn-Sauer Co.
cystone-See Electric Service Works
ilborn-Sauer Co., Post Rd., Fairfield, Conn.
'W.S."

King Bee Bee—American Automatic Devices Co k & Co., R. J., 343 N. Gay St., Balti-re, Md. "R-J." (Parking.)

Loock & Co., R. J., 343 N. Gay St., Balttmore, Md. "R.J." (Parking.)
Merit.—See Cole Automotive Products Co.
Miro-Flex Co 1824 E 2nd St Wichita 7 Kans
(Clearance and marker)
Norlipp Co., 5925 S. Lowe Ave., Chicago 21,
III. (Clearance and back-up.)
PMCO—See Peterson Mfg Co
Pathinder—See Auto Lamp Mfg Co
Peterson Mfg Co 2716 E 14th St Kansas City
27 Mo "PMCO" (Back-up cab fender clearance and tail)

27 Mo "PMCU" (Back-up cao fender Gear-ance and tail)
R-J-See R. J. Loock & Co.
Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich (Tail and parking)
Rosco-See A. W. Rosen & Co.
Rosen & Co. A W 447 Tenth Ave New York 7 N Y "Rosco" (Cowl fender dome marker

parking and clearance)
Rov-A-Lite—See Terado Co
Rowe Industries 1702 Wayne St Toledo 9
Ohio "Hartline"

Ohio "Hartline"

S & M Lamp Co., 119 W. 36th Place, Los
Angeles 54. Cal. (Tall, parking clearance,
fender, back-up and dome.)

SS—See Speedometer Service Co Saf-T-itay—See Superior Parts Mfg Corp Sho-Glo—See Berg Mfg & Sales Co Signal-Stat Corp Signal-Stat Bidg 523 Kent Ave Brooklyn 11 N Y (Dome, tail, clear-

marker, etc)
Automotive Div of Sparton

arcon Automotive Div of Sparton Co Jackson Mich (Armored, clearance, don mergency, flush-type, back-up, loadin marker, tail, and combination stop a

Speaker Corp J W 3059 N Well St Milwaukee 12 Wis (Back-up clearance tail and marker)

marker)

Speedometer Service Co 151 Forest St Montclair N J "SS" (Hood and trunk)

Stream-A-Lite—See Apco Mossberg Co
Superior Parts Mig Corp 1922 W Grand Ave
Chicago 22 Ill "Saf-T-Ray" (Clearance)

Swa-Bak-See Do-Ray Lamp Co.

Terado Co 1068 Raymond Ave St Paul 14
Minn "Rov-A-Lite"

Thatcher Glass Mig Co McKee Div Jeannette Pa (Dome)

Trippe Mig Co 133 N Jefferson St Chicago 6
Ill (Clearance)

III (Clearance)
U S Metal Products Co 1045 Atlantic Ave
Brooklyn 38 N Y "U S Pioneer" (Backup)
U S Tool & Mig Co 1832 N Sheffield Ave Chicago III "Eagle Brand" (Clearance for
trucks and buses)

trucks and buses)
Unity Mfg. Co., 2909 Indiana Ave., Chicago
16, Ill. (Back-up and deck.)
Warren-See Betts Machine Co
Yankee Metal Products Corp., 25 Grand St.,
Norwalk, Conn. (Fender, back-up, clear-ance, dome, parking and tall.)

LAMPS, DOME—See Lamps, Back-Up, Cowl, Dome, Fender, Tail, Parking Running Board and Clearance

LAMPS, Drying, Baking and Heating

Dry Cline Lamp Corp 410 Mill St Greensburg Ind (Infra-red baking and drying) Fostoria Pressed Steel Corp N Main St Fostoria Ohio "Fostoria Evenray" (Infra-

red) General Electric Co Lamp Div Nela Park Cleveland 12 Ohio (Infra-red) Lamp Div Westinghouse Electric Corp Mac-Arthur Ave Bloomfield N J "Westing-

house

house"
Master Mfg. Co., 811 W. Cabrini St., Chicago
7. Ill. (Infra-red.)
Nalco-Drithern—See North American Electric Lamp Co.
North American Electric Lamp Co 1520 N
13th St St Louis 6 Mo "Nalco-Drithern"
(Infra-red)

netray Corp 615 Front St Toledo 5 Ohio Penetrary Corp. 1. (Infra-red)
Trippe Mfg Co 133 N Jefferson St Chicago 6
Ill (Infra-red)
Div Westinghouse

See Lamp Div Westinghouse

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King Bee Sealed Beam"

Bee Sealed Beam"
Arno-Lite-See Arnolt Corp
Arnolt Corp Automotive Div Argonne Rd
Warsaw Ind "Arno-Lite"
Arnow Safety Device Co., Mt. Holly, N. J.

(Fog.)
Auto Lamp Mfg Co 2969 S Indiana Ave Chicago 9 III "Pathfinder" (Fog and spot)
Auto-Lite—See Electric Auto-Lite Co
Cable Electric Products Inc 234 Daboll St
Providence 7 R I "Klip-Beam" (Snot)
Carpenter Mfg Co 195 Master-Light Bidg
Somerville 45 Mass ("Roofmaster" roof
mounted spot)
Casco Products Corp. 515 Harcock Av. Casco Pro

mounted spot)
Casco Products Corp., 512 Hancock Ave.,
Bridgeport 2. Conn (Spot.)
Diets Co R E 225 Wilkinson St Syracuse 1
N Y (Fog and spot)
Do-Ray Lamp Co., 1458 S. Michigan Ave.,
Chicago 5, Ill. "Nobby."

American Automatic Devices
Throop & Congress Sts
"King Ree"

Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5. III. "Nobby"
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite" (Fog and road)
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio (Fog and spot)
General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio
General Electric Co Wiring Device Dent 95 Hathaway St Providence 7 R I (Snot)
Griffin Lamp Co 401 S Third St Hamilton Ohio (Fog)
Grote Mfg Co Lafavette & Grandview Aves Bellevue Kv (Fog)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson Ind.
Half Mile Ray—See Portable Light Co
Hall Lamn Co C M 1035 E Hancock Ave
Detroit Mich (Fog)
K-D Lamp Co 1910 Elm St Cincinnati 10
Ohio

Ohio
K-S—See Kilborn-Sauer Co.

Kilborn-Sauer Co., Post Rd., Fairfield, King-Bee-See American Automatic Devices

CO. Klip-Beam—See Cable Electric Products Inc Lamp Div Westinghouse Electric Corp Mac-Arthur Ave Bloomfield N J "Westing-

Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 58, Calif. "Royal Lumidor." (Road

house"
Lumidor Mfg. Co., 4801 F. 50th St. Los Angeles 58, Calif. "Royal Lumidor." (Road and spot.)
Nobby—See Do-Ray Lamp Co
PMCO—See Peterson Mfg Co
Pathfinder—See Auto Lamp Mfg Co
Peterson Mfg Co 2716 E 14th St Kansas City
27 Mo "PMCO" (Fog)
Portable Light Co 216 William St N Y 38
N Y "Half-Mile Ray" "Ray Line" (Roof mounted road and spot)
Ray Line—See Portable Light Co
Roofmaster—See Carpenter Mfg. Co.
Royal Lumidor—See Lumidor Mfg. Co.
S & M Lamp Co., 119 W. 36th Place, Los
Angeles 54, Calif.
Sparton Automotive Div of Sparton Corp
Jackson Mich (Fog and auxiliary driving)
U. S. Metal Products Co., 1045 Atlantic Ave.,
Brooklyn 38, N. Y. "U. S. Pioneer." (Fog.)
Unity Mfg. Co., 2999 Indiana Ave., Chicago
16, Ill.
Westinghouse—See Lamp Div Westinghouse

Westinghouse—See Lamp Div Westinghouse Electric Corp Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

LAMPS, Head

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King Bee Sealed Beam" Arrow Safety Device Co Mt Holly N J (Bus

etc)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill
Auto-Lite—See Electric Auto-Lite Co
Dietz Co R E 225 W Wilkinson St Syracuse
1 N Y

1 N Y o-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. lectric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Lite"
Electric Service Works Delta Star Electric
Div H K Porter Co 17th & Cambria Sts
Philadelphia 32 Pa "Keystone"
General Electric Co Miniature Lamp Dept
Nela Park Cleveland 12 Ohio
Great Lakes Tractor Co Mill St Rock Creek
Ohio.

Ohio
Guide Lamp Div., General Motors Corp., 25th
St. & Arrow Ave., Anderson, Ind.
Hall Lamp Co., C. M., 1035 E. Hancock Ave.,
E., Detroit, Mich.
K-D Lamp Co 1910 Elm St Cincinnati 10
Obio

Ohio
Keystone—See Electric Service Works
King Bee Sealed Beam—See American
Automatic Devices Co
Lamp Div Westinghouse Electric Corp MacArthur Ave Bloomfield N J "Westinghouse"

house"
Matchless Electric Co 1700 Washington St
Chicago 12 Ill
National—See Wheel Parts & Mig Co
Regal Motor Products Inc 6325 Grand River
Ave Detroit 8 Mich
Tung-Sol Electric Inc 25 8th Ave Newark
4 N J stinghouse-See Lamp Div Westinghouse

Electric Corp
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" 10 N Y "National" Yankee Metal Products Corp., 25 Grand St.,

LAMPS, INCANDESCENT — Se Bulbs, Miniature Incandescent - See Lamps or

Norwalk, Conn.

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ili "King Bee" King Bee—See American Automatic Devices

LAMPS, PARE PARKING—See Lamps, Back-Up, Dome, Fender, Tail, Parking and Clearance



Circle 237 on Inquiry Card for more data

LAMPS.

LAMPS, ROAD-See Lamps, Fog. Road and

LAMPS, SIDE AND TAIL (ELECTRIC)-Lamps, Back-Up, Cowl Dome, Fender, Parking and Clearance ender, Tail,

LAMPS, STEP-S Dome, Fender, -See Lamps, Back-Up, Cow r, Tail, Parking and Clear ance

LAMPS, STOP-See Signals, Direction Indi-cating (Auto)

LAMPS, Tell-Tale (Dash)

Cole-Hersee Co 20 Old Colony Ave Boston 20 Mass (Rear signal or tail lamp)
Rosen & Co A W 447 Tenth Ave N Y 7 N Y
Signal-Stat Corp Signal-Stat Bldg 523 Kent
Ave Brooklyn 11 N Y (Hand brake and
stop light)

op light) ker Corp J W 3059 N Weil St Milwaukee Wis (Hand brake)

LAMPS, Warning

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King

Beacon-Ray-See Federal Sign & Signal

Corp Busch & Co A S 6138 Northwest Hwy Chi-cago 3 Ill "Flashy" (Plugs into cigar lighter socket)

cago 3 lli "Flashy" (Plugs into cigar lighter socket) Carpenter Mfg Co 195 Master-Light Bldg Somerville 45 Mass (Roof mounted colored flashing oscillating and rotating) Do-Ray Lamp Co 1458 S Michigan Ave Chi-cago 5 lli

cago 5 Ill
Federal Sign & Signal Corp 8765 S State
St Chicago 19 Ill "Federal" (Flashing red
light for emergency vehicles, also combination siren and warning light for emergency and military vehicles: "Beacon military vehicles; "Beacon Ball" "Propello Ray" revolvgency and milit Ray" "Fire-Ball"

Ray" "Fire-Ball" "Propello Ray" revolving)
Fire Ball—See Federal Sign & Signal Corp
Flashy—See A & Busch & Co
Griffin Lamp Co 401 S Third St Hamilton
Ohio (Flashing)
Grote Mig Co Lafayette & Grandview Aves
Bellevue Ky
Gyralite—See Pyle-National Co
Haif-Mile-Ray—See Portable Light Co
King Bee—See American Automatic Devices
Co
Portable Light Co 216 William St N Y 38

Portable Light Co 216 William St N Y 38 N Y "Revolvo-Ray" (Revolving red; "Saf-T-Ray" "Rocket-Ray" & "Half-Mile-Ray" flashing red) Propello Ray—See Federal Sign & Signal

Corp yle-National Co 1234 N Kostner A cago 51 Ill "Gyralite" (Revolving) cago 51 Ill "Gyralite" (Revolving)
Revolvo-Ray—See Portable Light Co
Rocket-Ray—See Portable Light Co
Saf-T-Ray—See Portable Light Co
Signal-Stat Corp Signal-Stat Bldg 523
Kent Ave Brooklyn 11 N Y
Speaker Corp J W 3059 N Weil St Milwau-

Co Bldg 523 Speaker Corp J kee 12 Wis

kee 12 Wis Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill (Revolving flashing) Unity Mfg Co 2909 Indiana Ave Chicago 16 Ill (Red flashing)

LAMPS or BULBS, Miniature Incandescent

National Carbon Div Union

Eveready—See National Carbon Div Union Carbide & Carbon Corp G-E—See General Electric Co Miniature Lamp Dept General Electric Co Miniature Lamp Dept Nela Park Cleveland Ohio "G-E" Hudson Lamp Co 528 Elm St Kearny N J Lamp Div Westinghouse Electric Corp Mac-Arthur Ave Bloomfield N J "Westing-house"

house"
Matchless Electric Co 1700 Washington Blvd
Chicago 12 Ill
National Carbon Co Div of Union Carbide &
Carbon Corp 30 E 42nd St New York 17
N Y "Eveready"
Penetray Corp 615 Front St Toledo 5 Ohio
Save Lamp Co., 2687 Ash St., Baltimore 11,
MA

Seabury & Co 1518 W 7th St Los Angeles 17 Cali

Calif
Sylvania Electric Products, Inc., Lighting
Div., 60 Boston St., Salem, Mass.
Tung-Sol Electric Inc 95 Eighth Ave Newark 4 N J
Westinghouse—See Lamp Div Westinghouse
Electric Corp

LANDING GEARS, TRAILER - See Gears, Landing (Trailer)
LAPPING COMPOUNDS - See Compounds, Lapping

REEL-See also Lamps, Fog. Road LAPPING MACHINES-See Machines, Lap- LATHES, Contouring ping

LATCHES, HOOD-See Fasteners, Hood LATHE ATTACHMENTS—See Centers, Lathe and Grinder; Chucks, Lathe; also Holders,

LATHE TOOLS - See Tools, Lathe, Planer, Slotter and Shaper; also Tools, Turret Lathe

LATHES, Automatic and Semi-Auto-

Baird Machine Co 1700 Stratford Ave Strat-ford Conn (Vertical automatic) Bullard Co 286 Canfield Ave Bridgeport 9 Conn "Bullard Hydra Feed" Cone Automatic Machine Co., Windsor, Vt. (Bar and chucking.)

Cone Automatic Machine Co., Windsor, Vt. (Bar and chucking.)
Duomatic—See Lodge & Shipley Co. Fay—See Jones & Lamson Machine Co. Gisholt Machine Co., 1207 E. Washington Ave., Madison 10, Wis. "Gisholt" (Hydraulic): "Gisholt Simplimatic" (Hydraulic): "Gisholt Simplimatic" (Sigholt Machine Tool Co., R. K. Madison & Edwards Rds., Cincinnati & Ohio. Logge & Shipley Co., 3055 Colerain Ave., Cincinnati 25, Ohio. "Duomatic."
Loswing—See Seneca Falls Machine Co. Monarch Machine Tool Co., 402 Oak St., Sidney, Ohio.
Potter & Johnston Co., 1027 Newport Ave. Pawtucket R. I. (Turret.)
Reed-Prentice Corp 677 Cambridge St Worcester 4 Mass "Reedmatic" (Automatic)

natic) neca Falls Machine Co 314 Fall St Sen-Seneca Falls Machine Co 314 Fall St Seneca Falls N Y "Loswing"
Sundstrand Machine Tool Co 2531 11th St
Rockford Ill (Automatic)
Wickes Machine Tool Div Wickes Corp 515
N Washington Ave Saginaw Mich (Auto-

matic)

LATHES, Bench

ATHES, Bench
Atlas Press Co 1842 N Pitcher St Kalamazoo
Mich "Atlas" & "Clausing."
Clausing—See Atlas Press Co
Elgin Tool Works, 67 N. State St.. Elgin, Ill.
Hardinge Bros., Inc., 1418 College Ave.,
Elmira, N. Y. (Precision.)
Horth Lathe & Tool Co., 12 Beacon St.,
Woburn, Mass. (Precision.)
LeBlond Machine Tool Co., R. K., Madison &
Edwards Rds., Cincinnati 8, Ohio.
Rivet Lathe & Grinder Inc., 20 Riverview
Rd., Brighton, Boston, Mass.
Sheldon Machine Co., 4240 N. Knox Ave.,
Chicago 41, Ill.

Chicago 41, Ill. South Bend Lathe Works 425 E Madison St South Bend 22 Ind

LATHES, Boring

Betts-See Consolidated Machine Tool Div Bradford Machine Tool Co., 657 Evans St.,

radford Machine Tool Co., wo. Cincinnati, Ohio. Ohio.

zontal) eneca Falls Machine Co 214 Fall St Seneca Falls N Y

LATHES, Cam Turning

Crankshaft Machine Co 314 N Jackson St Jackson Mich "Jackson" Jackson-See Crankshaft Machine Co Loswing—See Seneca Falls Machine Co. Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y. "Loswing."

LATHES, Center Drive Facing

Seneca Falls Machine Co 314 Fall St Seneca Falls N Y Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

LATHES, Chucking

Blount Co J G 10 Woodland St Everett 49

Mass
Cleveland Automatic Machine Co 4932 Beach
St Norwood Cincinnati 12 Ohio
Hardinge Bros., Inc., 1418 College Ave.,
Elmira, N. Y. (Horizontal.)
Monarch Machine Tool Co 402 Oak St Sid-

Sundstrand Machine Tool Co 2531 11th St Rockford III

LATHES, CHUCKING (MULTIPLE SPIN-DLE)—See Machines, Chucking (Multiple Spindle)

Cincinnati Lathe & Tool Co Cincinnati 9
Ohio "Cincinnati Hydraguide"
Mackintosh-Hemphill Div E W Bliss Co 901
Bingham St SS Pittsburgh 3 Pa
Seneca Falls Machine Co 314 Fall St Seneca
Falls N Y

LATHES, Copying American Tool Works Co Pearl & E. Aves Cincinnati 2 Ohio (Hydraulic) Eggleston

Aves Cincinnat 2 Odio (Hydraulic)
Copymatic—See Lodge & Shipley Co
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Copymatic"
New Britain Machine Co New Britain-Gridley Machine Div South St New Britain
Conn "New Britain +GF+"

LATHES, Crankshaft

Betts—See Consolidated Machine Tool Div Consolidated Machine Tool Div Farrel-Bir-mingham Co 565 Blossom Rd Rochester 10 "Betts

N 1 "Betts"
Crankshaft Machine Co 314 N Jackson St
Jackon Mich "Jackson"
Jackson—See Crankshaft Machine Co
LeBlond Machine Tool Co R K Madison &
Edwards Rds Cincinnati 8 Ohio (Auto-

matic)
Seneca Falls Machine Co 314 Fall St Seneca
Falls N Y W

ickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

LATHES, Engine and Tool Room
American Tool Works Co., Pearl & Eggleston Aves., Cincinnati 2, Ohio.
Atlas Press Co 1842 N Pitcher St Kalamazoo

Mich Axelson Mfg Co P O Box 58335 Vernon Sta-tion Los Angeles 58 Calif Barber-Colman Co 1300 Rock St Rockford Ill

Barber-Colman Co 1300 Rock St Rockford Ill "Hendey"

Betts—See Consolidated Machine Tool Div Bradford Machine Tool Co 722 Porter St Lansing 5 Mich C & J—See Carroll-Jamieson Machine Tool

CO., Carroll-Jamieson Machine Tool Co., Davis Rd., Batavia, Ohio. "C & J." (Engine.) Chard-See Western Machine Tool Works. Cincinnati Lathe & Tool Co Cincinnati 9.

Ohio "Tray-Top"
Consolidated Machine Tool Div Farrel-Bir.

mingham Co 565 Blossom Rd Rochester 10 N Y "Betts" (Engine) elta-Rockwell—See Rockwell Mfg Co

Hardinge Bros., Inc., 1418 College Elmira, N. Y. (Precision tool room.) Hendey—See Barber-Colman Co LeBlond Machine Tool Co., R. K & Edwards Rds., Cincinnati & Edwards (Precision.)

Precision.)

Lehmann-Brandes Machine Co 3560 Chouteau Ave St Louis 3 Mo (Engine)

Lodge & Shinley Co., 4055 Colerain Ave., Cincinnati 25, Ohio. "Powerturn."

Logan Engineering Co., 4901 W. Lawrence Ave., Chicago 30, 111.

Mackintosh-Hemphill Div E W Bliss Co 901, Blingham St S Pittsburgh 3 Pa (Engine) Monarch Machine Tool Co., 402 Oak St., Sidney, Ohio.

Nebel Machine Tool Corp 3401 Central Parkway Cincinnati 25 Ohio

Porter-McLeod Machine Tool Co. Prospect

way Cincinnati 25 Ohio
Porter-McLeod Machine Tool Co Prospect
St Hatfield Mass
Powerturn-See Lodge & Shipley Co
Fratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn (Tool room)
Reed-Prentice Corp \$77 Cambridge St Wor-

Reed-Prentice Corp 677 Cambridge St Wor-cester 4 Mass Rivett Lathe & Grinder Inc., 20 Riverview Rd. Brighton, Boston 25, Mass. Rockford Machine Tool Co., 2400 Kishwaukee St., Rockford, III Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell" Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, III. Sidney Machine Tool Co., Highland Ave., Sidney, Ohio.

Sidney Machine Tool Co., Highland Ave., Sidney, Ohlo.
Simmons Machine Tool Corp., N. Broadway, Albany 1, N. Y.
South Bend Lathe Works 425 E Madison St South Bend 22 Ind
Springfield Machine Tool Co 631 Southern Ave W Springfield Ohlo Tray-Top—See Cincinnati Lathe & Tool Co Wade Tool Co 42 River St Waltham 54 Mass (Tool room)
Western Machine Tool Works 255 N Ninth St Holland Mich "Chard" (Engine)
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich (Engine)

LATHES, Extension and Gap

LeBlond Machine Tool Co., R. K., Madison & Edwards Rds Cincinnati 8 Ohio (Gap) Lodge & Shipley Co., 3055 Colerain Ave., Cincinnati 25, Ohio (Gap.)

Nebel Machine Tool Corp 3401 Central Park-Nebel Machine Tool Corp 3401 Central Park-way Cincinnati 25 Ohio Sidney Machine Tool Co Highland Ave Sidney Ohio (Gap)

LATHES, Flywheel

Riess Equipment Co., Water St., Pottstown,

LATHES, Metal Spinning

Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J. Floturn—See Lodge & Shipley Co Lodge & Shipley Co 3055 Colerain Ave Cin-cinnati 25 Ohio "Floturn"

LATHES, PATTERN MAKERS'-See Lathes, Woodworking LATHES, POLISHING—See Machines, Buffing and Polishing

LATHES, Precision

Olofson Corp 2730 Lyons Ave Lansing Mich
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Rivett Lathe & Grinder Inc 20 Riverview
Rd Brighton Boston Mass
Sebastian—See Sheldon Machine Co
Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill "Sebastian" & "Sheldon"
South Bend Lathe Works 425 E Madison
St South Bend 22 Ind

LATHES, Special Piston

Loswing—See Seneca Falls Machine Co Seneca Falls Machine Co 314 Fall St Seneca Falls Ny "Loswing" Trucut—See Frank N Wood Co Wood Co Frank N 344 W Main St Waukesha Wis "Trucut" (Regrooving, cleaning and centering)

centering)

LATHES, Speed

Blount Co J G 10 Woodland St Everett 49 Mass Mass Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohlo Schauer Mfg Corp 4500 Alpine Ave Ross-moyne Ohlo

LATHES, T

Lodge & Shipley Co 3055 Colerain Ave Cin-cinnati 25 Ohio

LATHES, TOOL ROOM-See Lathes, Engine and Tool Room

LATHES, Turret

(Including vertical and horizontal types)
Bardons & Oliver, Inc., 1133 W. Ninth St.,
Cleveland 13. Ohto.
Bullard Co 286 Canfield Ave Bridgeport 9
Conn "Cut Master" "Man-Au-Trol" (Ver-

Cut Master—See Bullard Co.

Gisholt Fastermatic—See Gisholt Machine Co

Gisholt Machine Co 1307 E Washington Ave

Madison 10 Wis "Gisholt Fastermatic"

"Gisholt Masterline" (Automatic); "Gisholt (Ram and saddle types)

J & L—See Jones & Lamson Machine Co

Jones & Lamson Machine Co 523 Clinton

St Springfield Vt "J & I."

Logan Engineering Co 4901 W Lawrence

Ave Chicago 30 Ill

Man-Au-Trol—See Bullard Co.

National Acme Co 170 E 131st St Cleveland

8 Ohlo

Oster Mig Co E 289th St Wickliffe Ohio

"Rapiduction"

Potter & Johnston Co 1027 Newport St Paw-

"Rapiduction"

Potter & Johnston Co 1027 Newport St Pawtucket R I (Automatic)

Rapiduction—See Oster Mig. Co.
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.

Simmons Machine Teel Company New Mac

Simmons Machine Tool Corp., N. Broadway,

Albany 1, N. Y.
outh Bend Lathe Works 425 E Madisor
St South Bend 22 Ind
Vade Tool Co 49 River St Waltham 54 Mass Se

(Hand) Warner & Swasey Co., 5701 Carnegie Ave., Cleveland 3, Ohio.

LATHES, Woodworking

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich

Blount Co J G 10 Woodland St Everett 49

Co., 930 W. Central Ave.,

Mass
Boice-Crane Co., 930 W. Central Ave.,
Toledo 6, Ohio.
Delta-Rockwell—See Rockwell Mfg Co
Goodspeed Machine Co., 202 Spruce St.,
Winchendon, Mass.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "Delta-N Lexington Ave Pittsburgh 8 Pa Rockwell"
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa Yates-American Machine Co Beloit Wis

LEAD, Battery

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. Bunker Hill Co Fifth Floor 660 Market St San Francisco 4 Calif

Divco—See Division Lead Co.
Division Lead Co 7742 W 61st Pl Summit Ill
"Divco"

LEAD BURNERS-See Burners, Lead

LEADS, High Frequency (For Induction Heating)

Titeflex Inc Hendee St Springfield 4 Mass

LEATHER, ARTIFICIAL OR IMITATION— See Fabric, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)

American Leather Mfg Co 250 Passaic St Newark 4 N J

Newark (N J Ashtabula—See Blanchard Bro & Lane Blanchard Bro & Lane Inc Ashtabula Hide & Leather Div 3906 Main Ave Ashtabula Ohio "Ashtabula" (Sole distributors Ryan Sales & Engrg Co 7545 Lyndon Ave De-troit 38 Mich) Burnished Castllian — See Lackawanna Leather Co Down Cushion—See Eagle-Ottawa Leather Co

Co Grand Haven Mich "Down Cushion" "Guildhail" "London Glaze" "Nottingham"
Feathersoft—See Lackawanna Leather Co Glazed Antique—See Lackawanna Leather Co Glazed Antique—See Lackawanna Leather

Co Gulldhall—See Eagle-Ottawa Leather Co. Lackawanna Leather Co., 700 Grand Ave.. Hackettstown, N. J. "Luxor." "Peerless Antique," "Glazed Antique." "Burnished Castillan," "Feathersoft," "Featherwhite." (For upholstery.)
London-Glaze—See Eagle-Ottawa Leather

Co.
Luxor—See Lackawanna Leather Co
Nottingham—See Eagle-Ottawa Leather Co
Peerless Antique—See Lackawanna Leather

Radel Leather Mfg Co 445 Wilson Ave New-ark N J

LEATHER, PUMP-See Gaskets, Leather LEATHER, UPHOLSTERY — See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery); also Leather, Natural (Upholstery) LEATHER PACKING-See Packing Leather

LENSES, Lamp (Glass and Plastic)

American Automatic Devices Co Harriso Throop & Congress Sts Chicago 7 Ill "Hy

Power"
American Optical Co Safety Products Div Mechanic St Southbridge Mass (Glass)
Auto-Lite—See Electric Auto-Lite Co
Do-Ray Lamp Co. 1458 S. Michigan Ave.,
Chicago 5, Ill. (Glass.)
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite" (Glass)
Glo-Brite—See Johnson Glass & Plastic
Corp.

Gio-Brite-See
Corp
Grote Mfg. Co., Lafavette & Grandview
Aves., Bellevue, Ky. (Plastic.)
Guide Lamp Div., General Motors Corp., 25th
St. & Arrow Ave., Anderson, Ind. (Plastic.)
Hy-Power — See American Automatic De-

vices Co
Johnson Glass & Plastic Corp 5248 Elston
Ave Chicago 30 Ill "Lynx-Eye" (Tall and
parking "Glo-Brite" plastic)
K-D Lamp Co 1910 Elm St Cincinnati 10

Ohio

K-S-See Kilborn-Sauer Co

Kilborn-Sauer Co Post Rd Fairfield Conn

"K-S" (Glass)

Lancaster Glass Corp 220 W Main St Lancaster Ohio (Tail stop parking backup directional interior dimming devices etc)

Lynx-Eye-See Johnson Glass & Plastic

National—See Wheel Parts & Mfg Co Parco—See Parts Mfg Co Parts Mfg Co 311 W 66 St N Y 23 N Y

"Parco"
Stimsonite Div of Elastic Stop Nut Corp of America 2445 N Kimball Ave Chicago 18 III Thatcher Glass Mig Co McKee Div Jeaunette Pa (Glass)
Wheel Parts & Mig Co 352 Fourth Ave N Y 10 N Y "National"
Yankee Metal Products Corp 25 Grand St Norwalk Conn (Glass)

LEVELLERS, Sheet Metal

Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y Syracuse 4 N X Sutton Engineering Co., 234 S. Potter St., Bellefonte, Pa. (For body stock.) Union Tool Corp 800 N Detroit St Warsaw

LEVERS, Brake and Gear Shift

(Finished or machined levers. For levers in the rough—see Castings; also Forgings)

also Forgings)

American Forging & Socket Co., P. O. Box
120, Pontiac, Mich.
Batavia Metal Products Corp., Liberty &
Schoo's Sts., Batavia, N. Y.
Bingham Stamping Div., Bingham-Herbrand
Corp., 1662 Post St., Toledo, Ohio. (Brake.)
Chicago Forging & Mfg Co 2000 Southpori
Ave Chicago 14 III (Brake)
Cleveland—See H K Porter Co
Eaton Mfg Co Stamping Div 17877 St Clair
Ave Cleveland 10 Ohio (Gear shift)
Orschein Brake Lever Mfg Co 1177 N Morley

Ave Cleveland 10 Ohio (Gear shift)
Orschein Brake Lever Mfg Co 1177 N Morley
St Moberly Mo (Brake for trucks)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 78th St Cleveland 4 Ohio "Cleveland"
Ryerson & Haynes Inc 2307 E Sanson St
Jackson Mich (Brake)
Tube Manifold Corp 415 Bryant St North
Tonawanda N Y (Gear shift)

LIFTERS, Sheet Steel

Culien-Friestedt Co 1300 8 Kilbourn Ave Chicago 23 Ill "C-F" Littell Machine Co F J 4125 Ravenswood Ave Chicago 13 Ill Union Tool Corp 800 N Detroit St Warsaw

LIFT TRUCK PLATFORMS—See Platforms,

LIFT TRUCKS-See Trucks, Lift

LIFTING TONGS, AUTOMATIC—See Tongs, Lifting (Automatic)

LIFTS, Auto

Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Hydraulic, air and electrically operated)

GLOBE AUTO HOISTS

Single & 2-post Automotive Hoists including revolutionary "Frame-Kontact" types

GLOBE HOIST COMPANY

Philadelphia . Des Moines . Long Beach, Cal. Circle 238 on Inquiry Card for more data

LIFTS, TELESCOPE—See Elevators, Industrial (Portable)

LIFTS, Truck and Bus

Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Electric)

GLOBE TRUCK HOISTS

Heavy duty single, 2- and 4-post Hoists to speed bus & truck service operations.

GLOBE HOIST COMPANY

Philadelphia . Des Moines . Long Beach, Cal. Circle 239 on Inquiry Card for more data

LIGHT RELAYS-See Relays, Horn and Light

LIGHTERS, Electric Cigar (Fer use on ear from regular lighting battery)

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Perfection," "Casco." Cuno Engineering Corp., 80 S. Vine St.,

Cuno Engineering Corp., 80 S. Vine St., Meriden. Conn.

Engie Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y Perfection—See Casco Products Corp.

RP—See Rochester Products Div General Motors Corp.

Rochester Products Div General Motors Corp.

Rochester Products Div General Motors Corp.

1000 Lexington Ave Rochester 3 N Y "RP"

Santay Corp., 251 N. Crawford Ave., Chicago 24, Ill. (Automatic).

Sinko Mfg & Tool Co 3138 Grand Ave.

Chicago 23 Ill (Automatic).

Standard Portable Cord Co Mayville N Y

LIGHTS—See Lamps
LIGHTS, REFLECTING — See Reflectors. LIGHTS, REFLECTING—see reflectore, Safety
LIGHTS, STOP—See Signals, Direction Indicating (Auto)
LIGHTS, TIMING—See Instruments, Timing
LIMIT GAGES—See Gages, Limit

LINESTARTERS (For A. C. Motors) (See also Starters, Motor, for Fac-tories)

Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa

LINING, Body or Frame

use between body sill and steel (For use between body frames to prevent squeaking) American Felt Co Glenville Conn Armstrong Cork Co Industrial Div Lan-

Industries Inc 1628 Bates St Indian-

apolis I Ind
Black Diamond—See Uniform Hood Lace Co
Black Diamond—See Uniform Hood Lace Co
Booth Felt Co 100 Water St Brooklyn I N Y
Commonwealth Felt Co 74 Summer
Boston 9 Mass "Perfection" 11 Mass
Felters Co 210 South St Boston 11 Mass
Gilmer Co., L. H., Cottman & Keystone Sts.
(Taconvi, Philadelphia, Pa
Jalean—See Uniform Hood Lace Co.
Keystone Roofing Mfg Co Franklin St & LININGS, Head
PRR York Pa
LININGS, Head

Jalean—See Unito, Mfg Co Francis, Keystone Roofing Mfg Co Francis, PRR York Pa Laffex—See Latex Fiber Industries, Inc., Latex Fiber Industries, Inc., Beaver Falls, N. Y. "Lexide," "Laffex."
Lexide—See Latex Fiber Industries, Inc., Perfection—See Commonwealth Felt Co. Rhopac Inc 2425 Cleveland St Skokie Ill Silenite—See John Warren Watson Co., Stevens Co., A. T., 118 E. 23th St., New York 16, N. Y.
Uniform Hood Lace Co 633 E St Clair St Indianpolis 2 Ind "Black Diamond,"

Watson Co., John Warren, 1924 Hunting Park Ave., Philadelphia 40, Pa. "Slienite." Western Felt Works 4021 W Ogden Ave Vestern Felt Works 4021 Chicago 23 III

LINING, Brake

American Brakeblok Div American Brake Shoe Co Maple Rd East of Crooks Rd De-troit Mich Anchor Packing Co., 401 N. Broad St., Phila-lephia S. Pa. "Ankorite." Asbestos Mig. Co., E. Babine St., Hunting-ton, Ind. "Ameo." Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1. III.

Asbestos Texuie Co., Avairut St North Wales Chicago 1, Ill. Atlas Asbestos Co 469 Wainut St North Wales Pa "Atlas" "Old Ironsides" "Quaker" "Bodygard" "Lifegard" "Master" Bendix Eclipse—See Marshall-Eclipse Div of Bendix Aviation Corp

Bendix Aviation Corp Bendix Products Div Bendix Aviation Corp South Bend 20 Ind

Bendix A. The Bendia Bendix Products Div Bendia Buth Products Div Bendia Buth Bendia Products Div Bendia Buth Ribbon—See Gatke Corp Pirestone Tire & Rubber Co 1200 Pirestone Parkway Akron Ohlo Gatke Corp 228 N La Salle St Chicago 1 Ill "Gatke" "Grooved" "Malablok" "Modrate" "Dus-All" "Mileage-Matched" "Waffle Block" "Blue Ribbon" Gempco—See General Metals Powder Co., 130 Elinor Ave., Akron 5, Ohlo. "Gempco."
Grey Rock Div of Raybestos-Manhattan Inc Manheim Pa Grizzly Mig Div of Mar Pro Inc 700 W Caroline St Paulding Ohlo "Grizzly Syncroset" "Grizzly Silvertip" "X-T" "Grizzly Saftibond"

Hope Webbing Co P O Box 1495 Providence 1 R I

Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton 1 Ohio "Inlite" Johns-Manville 22 E 40th St New York 18 N Y "J-M" "4-Star" "Wireklad" Lasco Brake Products Corp 2615 Magnolia St Oakland Calif

Oaklane Marshall-Eclip Box calification of Bendix Aviation fox 528, Troy, N. Y. "Bendix Marshall-Eculps Corp., Box 538, Troy, N. T. "Bendix Eclipse."

Miley Co L J 18 S Sangamon St Chleago 7 Ill "Champion" "Miley" "Miley Black Gold" "Miley Ebonite" "Premier" "Zec-

bee"
Moided Materials Div. Carlisle Corp., Gillis Ave., Ridgway. Pa. "Moid-Blok."
National Brake Block Co 37-17 57th St
Woodside 77 N Y "National" "Seg-Moid";

Woodstog 11 A Vallets" (Woven)
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del (Fibre)
Rawhide Products Co., Michigan Ave., Ken-

Rawhide Froquets Co., ilworth, N. J. "Gripper."
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales

Div Stratford Conn "R/M"

Rex-Hide Brake Lining Co 67 Glenwood Pt

East Orange N J "Rex-Hide" "Rex-85"

"Rex-Hy" "Rex-88" "Rexstar"

Rossendale Ruboil Co., 30 Euclid Ave., Newark, N J, "Reddaway"

Conn "Brace"

ark, N. J. "Reddaway."
Russell Mfr. Co. Middletown, Conn. "Rusco."
Scandinavia Beiting Co. 744 Broad St. New
ark 1 N. J. "Scandinavia." "Halo"
Sliver Line Brake Lining Corp 5618 E. Washington Blvd Los Angeles 22 Calif. "SilverBond" "Silver Line" "Silvermatic"
Southern Friction Materials Co. Box 1475
Charlotte N. C. Whitshead, Pd. Tenton. 6
Thermoid Co. Whitshead, Pd. Tenton. 6

Charlotte N Whitehead Rd Trenton 6

Universal Friction Materials Div of Gairing Tool Co 1700 United Artists Bldg Detroit 26 Mich

26 Mich Velvetouch—See S. K. Wellman Co. Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner CoMax." Wellington Sears Co 111 W 40th St N N 18

N Y Wellman Co S K 200 Egbert St Bedford Ohio "Velvetouch" (Metallic) World Bestos Div of Firestone Tire & Rub-ber Co 1112 B 25th St New Castle Ind X-T-See Grizzly Mfg Div

LINING, FRAME-See Lining, Body or Frame

Acme Auto Headlining Co 2104 Orange Ave Long Beach & Calif "Acme Made" Burlington Mills Inc., Burlington, Wis. Carstenite—See Technical Ply-Wood Sales Naugalite—See United States Rubber Co. Pacific Mills Auto Fabrics Div Pacific Mills Domestics Corp 1407 Broadway N Y 18 N Y

N Y
Stevens & Co J P 803 W 11 Mile Rd Royal
Oak Mich
Technical Ply-Wood Sales 6756 Crandon Ave
Chicago 49 Ill "Carstenite"
Textileather Div of General Tire & Rubber
Co 807 Madison Ave Toledo 3 Ohio
Textilene Sunsure—See E W Twitchell Inc
Twitchell Inc E W 3rd & Somerset Ste
Philadelphia 33 Pa "Textilene Sunsure"
(Fybre)

(Fibre)
United States Rubber Co.. Rockefeller Center, 1220 Ave. of the Americas, New York
20. N. Y. "Naugalite."
Wellington Sears Co., 65 Worth St., New York 13, N. Y.

LININGS, Transmission

World Bestos Div of Firestone Tire & Rub-ber Co 1112 S 25th St New Castle Ind

LINKS, Spring Shackle

Porter Co H K Forge & Fittings Div Cleve-land Forge Works 3200 E 79th St Cleve-land 4 Ohio "Cleveland"

LINKS, STEERING-See Connectors, Steering LINOLEUM - See Coverings, Floor (Bus or

LOADERS, Truck (Elevating Tailgate)

(Hydraulically-powered from truck engine)
Anthony Co Streator III "Lift-Gate" Cemco Industries Inc Galion Ohio Converto Mfg Co Third & Green Sts Cambridge City Ind "Converto-Wood" Curtis Automotive Devices Inc Westfield Ind "Master Loader" (Electric; sole distributors Collins & Associates 4906 Heuwerth Ave Cincinnati 38 Ohio)
Daybrook Hydraulic Div Young Spring & Wire Corp Bowling Green Ohio "Daybrook Power Gate"

Galion-See Hercules Galion Products Inc Gar Wood Industries Inc Wayne Mich "Gar-

Gar Wood Industries Inc Wayne Mich "Garwood-St Paul Frate Gate"
Hell Co 2000 W Montana St Milwaukee 1
Wis "Helloader" (Hydraulic)
Hercules Galion Producta Inc Galion Ohio
"Galion" & "Hercules"
Lift-Gate—See Anthony Co
Marion Metai Products Co Cheney Ave
Marlon Ohio "Marlon Hydrogate"
Master Loader—See Curtis Automotive Devices Inc

vices Inc
Midwest Body & Mfg Div Electrographic
Corp S Central St Paris III
Minneapolis Freeman Mfg Co 5610 W 36th
St Minneapolis 16 Minn
Perfection Steel Body Co S East St Gallon
Obto

Ohio
Revolvator Co U S Route 1 at 86th St North
Bergen N J
Stratton Equipment Co 2030 E 105th St
Cleveland 6 Ohio (Also side loaders)
Ven Corp 2828 Newell St Los Angeles 32
Calif "Venco" (Electric)
Watson Co H S 1316 67th St Emeryville Calif
"Watson Weight-lifter"

LOADERS and UNLOADERS, Automatic (For Presses, Die Casting and Welding Machines, Shears, etc.)

Allied Research Products Inc 4004 E Monu-ment St Baltimore 5 Md "Wagner" Die & Automation Inc 1490 Edison Ave Hamilton Ohio Gleason Works 1000 University Ave Roches-ter 3 N Y (Press unloaders) Hautau Engrg Co 721 Wanda St Ferndale

20 Mich Murray-Way Corp Maple Rd E Birmingham Mich

nam Mich National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring" Press Automation Systems Inc 25418 Ryan Rd Center Line Mich Red Ring—See National Broach & Machine

Co Sahlin Engre Co 750 Maple Rd Birmingham Mich "Sahlin Iron Hand" (Unloaders) Sesco Inc 8881 Central Ave Detroit 4 Mich (Presses) Wagner—See Allied Research Products Inc

LOCK BOLTS—See Bolts, Lock LOCK NUTS—See Nuts, Lock and Self-Locking
LOCK SWITCHES—See Locks, Ignition
LOCK WASHERS—See Washers, Lock; also
Nuts, Lock and Self-Locking

LOCKS, Brake (Hill Holding)

DOCKS, Brake (Hill Holding)
Diamond-U Products 8459 Dearborn Ave
South Gate Calif "Hold-A-Car"
Double Check—See Sharp Mfg Co
Hold-A-Car—See Diamond-U Products
Mico—See Minnesota Automotive Inc
Minnesota Automotive Inc 1101 N Front St
Mankato Minn "Mico"
NoRol—See Wagner Electric Corp
Sharp Mfg Co 109 W Columbus St Nelsonville Ohio "Double Check" "Sharp"
Sure-Rite Hill Holder—See Warehouse Dist
Co

Corragner Electric Corp \$400 Plymouth Ave St Louis 14 Mo "NoRol" Yarehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite Hill Holder"

LOCKS, Door (Auto)

Briggs & Stratton Corp., 2711 N, 18th St., Milwaukee 1, Wis. Chicago Lock Co., 2024 N. Racine Ave., Chi-cago 14, III

Chicago Lock Co., 2024 N. Racine Ave., Chicago I.4, Ill "Cleveland—See H K Porter Co DMP—See Detroit Master Products Cc Detroit Master Products Co 16490 Woodward Ave Detroit 3 Mich "DMP"
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio "Eberhard Clamptite" (Door and taligate lock for trucks)
Ferro Stampings Co 1367 Franklin St Detroit 7 Mich

Ferro Sta 7 Mich Mfg Co 225 N Horton St Jack-Hanc

Hancock Mfg Co 225 N Horton St Jackson Mich
Hansen Mfg Co A L 5037 Ravenswood Ave
Chicago 40 Ill (Truck body)
Houser Engra & Mfg Co 200 E Spring St
Bluffton Ind (Safety for rear doors)
Hurd Lock & Mfg Co 219 N Main St Almont
Mich

Mich Ideal Rubber Products Co 273 Van Sinderen Ave Brooklyn N Y "Twistlok" (Safety for

Ave Brooklyn N 1 Avison
all cars)
Ilco—See Independent Lock Co
Independent Lock Co 49 Daniels St Fitchburg Mass "Ilco"
Murphy Sales Co Box 5416 Lake St Sta
Minneapolis 8 Minn "Save-A-Life" (Electric for rear doors)

Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland River
Radiator Specialty Co 1400 W Independence
Blvd Charlotte 1 N C "Saf-T-Lok"
Regal Motor Products Inc 6226 Grand River
Ave Detroit 8 Mich
Saf-T-Lok—See Radiator Specialty Co.
Save-A-Life—See Murphy Sales Co
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Door deck lid lift gate and
taligate)

Modernair Corp 400 Fred
Calif
Norgren Co C A 3400 S I
Colo (Machinery cylinds
(Including type commo
grease and oil guns; a
sure type; see sies Lut
able High Pressure; fredors see Pumps, Oil Ci taligate)
Twistlok—See Ideal Rubber Products Co

LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee I, Wis. Chicago Lock Co., 2024 N. Racine Ave., Chi-cago 14, Ill. Clum Mfg. Co., 601 W. National Ave., Mil-waukee 4, Wis. Clum Mfg. Co., 601 W. Assertion Mfg. Co., 601 W. Assertion Waukee 4, Wis.
DMP—See Detroit Master Products Co 16490 Woodward Ave Detroit 3 Mich "DMP"
Eagle Lock & Screw Co 8 Main St Terry-ville Conn
Friedco Products Inc 36-08 33rd St Long
Island City 8 N Y
Gasco—See General Automotive Specialty

Co. General Automotive Specialty Co. 10-40 45th Ave Long Island City 1 N Y "Gasco" Hurd Lock & Mfg Co 219 N Main St Almont Mich Ico—See Independent Lock Co 10-40 45th Fitchburg Mass "Ilco" Miller Co L B 336 W Main St Stamford Conn Mitchell Special Div Industrial Enterprises Inc Shelmire & Edmund Sts Philadelphia 35 Pa "Mitchellock"

LOCKS, Nut

American Nut & Bolt Fastener Co., 2029 Doerr St Pittsburgh 23 Pa "Bartley" "O S" Bartley—See American Nut & Bolt Fastener Cincinnati 2 Ohio
Cincinnati 2 Ohio
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
Hill Nut Co., 2620 W. Flournoy St., Chicago
12, Ill. Dorman Products Corp 1004 Sycamore St

12, Ill.

Rantlink—See Positive Lock Washer Co
Keystone—See Positive Lock Washer Co.
Lokuts—See Shakeproof Inc
Non-Link Positive — See Positive Lock
Washer Co.

S—See American Nut & Bolt Fastener Co
Positive Lock Washer Co., 181 Miller St.,
Newark, N. J. "Kantlink." "Non-Link
Positive." "Keystone."
Shakeproof Inc 2501 Keeler Ave Chicago 39
Ill "Lokuts"
Speed Grip—See Tinnerman Products Inc
Tinnerman Products Inc 8700 Brookpark Rd
Cleveland Ohio "Speed Grip"

LOCKS, Tire and Wheel (Spare and Running)

Chicago Lock Co., 2024 N. Racine Ave., Chicago Lock Co., 2024 N. Racine Ave., Chicago 4, Ill. (Spare.)
Ilok—See T & A Mig. Co., 876 University Ave., St. Paul 4, Minn. "Ilok."
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohlo. "Wise-Lock."

LOCKS, Trailer

Bartiett Trailer Corp 3080 Archer Ave Chi-cago 8 Ill Chicago Lock Co., 2024 N. Racine Ave., Chi-cago 4. Ill. Lavin Machine & Mfg Wks A M Hatboro Pa "Safernell" (Trailer-hitch)

LOCKS, VALVE SPRING RETAINER—See Keys, Valve Stem LOW AIR PRESSURE WARNING SWITCHES (TRUCKS)—See Switches, Low Air Pressure Warning (Trucks) LOW VACUUM SIGNALS, BRAKE—See Sig-

nals, Low Vacuum (Brake)

LUBRICANT ADDITIVES—See Additives, Oil

and Lubricant
LUBRICATING GFAPHITE—See Graphite,
Lubricating

LUBRICATORS, Air Line

Airliner—See Gits Bros Mig Co Crown—See Hannifin Co Gits Bros Mig Co 1846 S Kilbourn Ave Chi-cago 23 Ill "Airliner" Hannifin Co 615-D S Wolf Rd Des Plaines Ill "Crown" Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich

Modernair Corp 400 Freda St San Leandro Calif Calif orgren Co C A 3400 S Elati St Englewood Colo (Machinery cylinder and power tools)

(including type commonly known as grease and oil guns; also high pressure type; see also Lubricators, Portable High Pressure; for car lubricators ee Pumps, Oil Circulating; also Fittings, Lubricating)

Adams Grease Gun 88-92 N First St Brook-lyn 11 N Y Alemite-See Stewart-Warner Corp. Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. Benett-See John Wood Co Bennett Pump

n Products Corp Auburn N Y Bowen Products Corp August 1 Coll Mig Co 1013 N Fares Ave Evansville 11 Ind (Universal joint, clutch and shock absorber)
De Vilbiss Co., 300 Phillips Ave., Toledo 1,

absorbery
De Vibiuss Co., 300 Phillips Ave., Toledo 1,
Ohio.
Dixon Crucible Co., Joseph, Monmouth &
Wayne Sts., Jersey City 3, N. J. "GraphAlir" & "Graphojet." (Graphite.)
Gilbert & Barker Mfg Co. Cold Spring Ave
West Springfield Mass "Gilbarco"
Graco—See Gray Co.
Graph-Air—See Joseph Dixon Crucible Co.
Graphojet—See Jith Ave N E Minneapolis 13
Minn. "Graco."
Graco."
Graver—See Grover Smith Mfg Corp
Handi-Luber—See Lincoln Engineering Co.
Inter-Continent Mfg Co. 117 E 13th St Chicago 5 Ill "Imco-Lube"
Lincoln Engineering Co. 4010 Goodfellow
Tital St. Louis 20 Mo. "Handi-Lubers"

Lincoin Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Handi-Lubers" Noera Mfg. Co., Div. of Chase Brass & Cop-per Co., 236 Grand St., Waterbury 20

Conn.
Smith Mfg Corp Grover 850 E Valley Bivd
San Gabriel Calif "Grover"
Stewart-Warner Corp., Alemite Div., 1826
Diversey Parkway, Chicago 14, Ill. "Alemtia"

rior Mfg Co 13th & Rockland Sts Phila-phia 41 Pa deipnia 41 Pa United States Air Compressor Co., 5300 Har-vard Ave., Cleveland 5. Ohio. Wood Co John Bennett Pump Div Broadway & Wood Sts Muskegon Mich "Bennett"

LUBRICATORS, for Autos, Trailers and Buses (Central System)

Alemite—See Stewart-Warner Corp
Forster Bros Mfg. Co 82 E Lanark Ave
Lanark III (For Ford and Chevrolet cars)
Lheoln Engrg Co 4010 Goodfellow Blvd St
Louis 20 Mo "Multi-Luber" (Automatic)
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 III "Alemite"

LUBRICATORS, for Machinery (Central System)

Alemite-See Stewart-Warner Corp Alemite Alemite—See Stewart-warner Corp Avenue Div Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J CentrOller—See Lincoln Engrg Co Centro-Matic—See Lincoln Engrg Co Parval Corp 3249 E 80th St Cleveland 4 Ohio Fauver Co J N 49 W Hancock St Detroit 1 Mich "Oil-Air" Hills-McCanna Co 3025 N Western Ave Chi-cago III

cago Ill Engineering Co 4010 Goodfellow it Louis 20 Mo "Centro-Matic" & Madison-Kipp Corp 201 Waubesa St Madison

Madison-Kipp Corp 201 Waubesa St Madison Wis
Master Pneumatic 20439 Sherwood Ave Detroit 34 Mich
Oil-Air-See J N Fauver Co
Stewart-Warner Corp Alemite Div 1826
Diversey Parkway Chicago 14 III "Alemite"

Trico Fuse Mfg Co 2948 N 5th St Milwaukee 12 Wis

LUBRICATORS, Portable High Pres sure (Compressed Air)

Adams Grease Gun 88-92 N First St Brook-lyn 11 N Y Alemite—See Stewart-Warner Corp Alem ite Div

Aro Equipment Corp., Bryan, Ohio.
Autolube—See Lincoln Engrg Co
Balcrank, Inc., Disney St., nr., Marburg
Cincinnati, Ohio.
Bud-Air Co R D 1 Pulaski N Y

Graco-See Gray Co. Gray Co 54 11th Ave N E Minneapolis 13 Minn. "Graco." Grover-See Grover Smith Mfg Corp

Grover—See Grover Smith Mfg Corp
Lincoln Engineering Co 4010 Goodfellow
Blvd St Louis 20 Mo "Autolube" "Lubriguns" "Powerlubers"
Lubriguns—See Lincoln Engineering Co.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Powerlubers—See Lincoln Engrg Co.
Smith Mfg Corp Grover 850 E Valley Blvd
San Gabriel Calif "Grover"
Stewart-Warner Corp., Alemite Div., 1826
Diversey Parkway, Chicago 14, Ill. "Alemite."

Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., \$300 Harvard Ave., Cleveland 5, Ohio.

LUBRICATORS, Portable High Pressure (Electric)

Adams Grease Gun 88-92 N 1st St Brooklyn 11 N Y

11 N Y
Alemite—See Stewart-Warner Corp Alemite Div
Aro Equipment Corp Bryan Ohio
Balerank Inc Disney St nr Marburg Cincinnati Ohio
K R W—See K R Wilson Inc
Lincoln Engineering Co 4010 Goodfellow

K R W—See K R Wilson Inc Lincoln Engineering Co 4616 Goodfellov Blvd St Louis 26 Mo "Lubriguns" Lubriguns—See Lincoln Engineering Co Stewart-Warner Corp Alemite Div 1826 Di versey Parkway Chicago 14 Ill "Alemite' Wilson Inc K R Arcade N Y "K R W"

LUBRICATORS, Portable High Pressure (Hand Operated)

(See also Lubricators, Hand) Adams Grease Gun 88-92 N 1st St Brooklyn 11 N Y

11 N Y
Alemite—See Stewart-Warner Corp.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinanti, Ohio.
Gasboy—See Wm M Wilson's Sons Inc
Jiffy Lubricator Co., 304 Second Ave., Fargo,

N. D. Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Lincoln Porto-Pak" Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alem-

ite."
United States Air Compressor Co., 5306 Harvard Ave., Cleveland 5, Ohio.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.,
Wayne Pump Co Wayne-Marvel Div Salisbury Md "Wayne-Marvel"
Wilson's Sons Inc Wm M 8th St & Franconia Ave Lansdale Pa "Gasboy"

LUBRICATORS, Stationary, High Pressure (Compressed Air) Alemite-See Stewart-Warner Corp., Alem-

Alemite—See Stewart-Warner Corp., Alemite Div.

Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
CentrOluber—See Lincoln Engrg Co
Graco—See Gray Co.
Gray Co 54 11th Ave N E Minneapolis 13
Minn. "Graco."
Grover—See Grover Smith Mig Corp

Grover—See Grover Smith Mfg Corp
Lincoln Engineering Co 4010 Goodfellow
Blvd, St Louis 20 Mo "Lubriguns" "Masterluber" "CentrOluber" Lubriguns See Lincoln Engrg Co.
Jubriguns—See Lincoln Engrg Co
Smith Mfg Corp Grover 850 E Valley Blvd
San Gabriel Calif "Grover"
Stewart-Warner Corp., Alemite Div., 1826
Diversey Parkway, Chicago 14, Ill. "Alemite."

LUGS, Soldering

Cinch Mfg. Corp., 1026 S. Homan St., Chi-cago 24, Ill. Hill Nut Co., 2620 W. Flourney St., Chicago, 12, III. 12, Ill.
Sherman Mfg. Co., H. B., 22 Barney St.,
Battle Creek, Mich.
Stronghold Screw Products, Inc., 203 W.
Hubbard St., Chicago 10, Ill.
Tweco Products Co Boston at Mosely Sts
Wichita J Kans
Wilsaker Cable Corp., 1301, Rurlington Ava. Tweco Products Co Boston at Mosely Sts Wichita 1 Kans Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. Zierick Mfg. Corp., Beechwood & Rockdale Aves., New Rochelle, N. T.

LUGS, Solderless

Burndy Corp Omaton Div Norwalk Conn "Hydent" ETC—See Electrix Terminals & Connectors Inc

Electrix Terminals & Connectors Inc 990 E 67th St Cleveland 3 Ohio "ETC" Frankei Connector Co 27 Vestry St N Y 18 N Y

LUGS, Solderless-continued

Hydent—See Burndy Corp Omaton Div
Kliegi Bros. Universal Electric Stage Lighting Co., 321 W. 56th St., New York, N. Y.
Lynn—See Vaco Products Co
Sherman Mfg. Co., H. B., 23 Barney St.,
Battle Creek, Mich.
Tweco Products Co Boston at Mosley Sts
Wichita 1 Kans
Vaco Products Co 317 E Ontario St Chicago
11 Ill "Lynn"
Whitaker Cable Corp., 1301 Burlington Ave.,
North Kansas City 16, Mo.

MACHINE TOOL FEEDERS-See Feeds, Ma-

MACHINE WORK TO ORDER

(See also Contract Work) Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

MACHINERY SPACERS-See Spacers, Ma-

MACHINES, Automatic Assembly

Bodine Corp 317 Mt Grove St Bridgeport 5 Conn
Buhr Machine Tool Co 839 Green St Ann
Arbor Mich
Century-Detroit Corp 7701 Lyndon Ave Detroit 33 Mich
Cross Co 17801 E 14 Mile Rd Fraser Mich
Ingersoll-Rand Co 11 Broadway N Y 4 N Y
(Nuts and screws)
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee
St Rockford II (Bearing)
Robbins Co Omer E 11961 Dixie Ave Detroit
39 Mich (Bearing)
Snyder Tool & Engrg Co 3400 E Lafayette
Ave Detroit 7 Mich

MACHINES, Automatic Transfer (Production Work)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky Baird Machine Co 1700 Stratford Ave Straf-

Conn Bros Inc P O Box 101 Sta F Toledo

anes Co W F & John 301 S Water St Rockford III

Rockford III
Barnes Drill Co 826 Chestnut St Rockford
III "Barnesdril"
Baush Machine Tool Co 156 Wason Ave
Springfield 7 Mass
Buhr Machine Tool Co 839 Green St Ann

uhr Machine 1900.
Arbor Mich
incinnati Milling Machine Co 4701 Marburg
Ave Cincinnati 9 Ohio
learing Machine Corp 6499 W 65th St Chicago 38 Ill
Schaoh & Machine Co P O Box 37

Cincinnati Milling Machine Co 401 alastoch Ave Cincinnati 9 Ohio Clearing Machine Corp 6499 W 65th St Chicago 38 Ill. Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich Cross Co 17801 E 14 Mile Rd Fraser Mich Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"
Ferguson Machine Corp of Indiana P O Box 5841 St Louis 21 Mo "Trans-O-Mator" "Intermittor"

"Intermittor"
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Foote-Burt Co 13000 St Clair Ave Cleveland S Ohio "Footburt"
Greenlee Bros. & Co., 2100 12th St., Rockford, II.
Heald Machine Co 10 New Bond St Worcester 6 Mass "Bore-Matic"
Hole Hog—See Moline Tool Co Impco—See Industrial Metal Products Corp Industrial Metal Products Corp St. Landship I Mich "Impco"
Intermittor—See Ferguson Machine Corp of Indiana

Indiana Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis La Salle Tool Inc 3840 E Outer Dr Detroit

34 Mich Michigan Drill Head Co 11449 Timken Ave

Michigan Drill Head Co 11449 Timken Ave Van Dyke Mich Moline Tool Co 102 20th St Moline Ill "Hole Hog"

Motch & Merryweather Machinery Co 715 Penton Bldg Cleveland 13 Ohlo Natoo-See National Automatic Tool Co National Automatic Tool Co S 7th & N Ste Richmond Ind "Natco"

Seneca Falls Wachine Co 314 Fall St Seneca Falls V

Falls N Y.
Snyder Tool & Engrg. Co., 3400 E. Lafayette
Ave., Detroit 7, Mich.
Sundstrand Machine Tool Co 2531 11th St
Rockford Ill

Rockford III
ransmat—See Verson Allsteel Press Co
rans-O-Mator—See Ferguson Machine & MACHINES, Bender-Cutter (Comrool Co

Co Ord St & Kenwood

pressed Air or Hand)

Tool Co Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago 19 III "Transmat" Ave Chicago 19 Ill "Tran XLO—See Ex-Cell-O Corp

MACHINES, Balancing (Industrial) (For balancing ways-see Ways, Bal-ancing)

Annis Co R B 1101 N Delaware St Indianap-Annis Co R B 1101 N Delaware St Indianap-olis Z lind 'Dyngraph' Bear Mig. Co., Zist St. & Fifth Ave., Rock Island, Ill. (Static and dynamic.) Dynograph—See R B Annis Co Electrodyne—See Tinius Olsen Testing Ma-

Electrodyne—See Tinius Olsen Testing Machine Co
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Gishoit Machine Co., 1307 E. Washington
Ave Madison 10 Wis (Static or dynamic)
Hi-Eff—See Taylor Dynamometer & Machine

Lempco Products Inc 5490 Dunham Rd Bed-ford Ohio (Dynamic for crankshaft and driveshaft)

driveshaft)
Micro-Polse Engr & Sales Co 14851 Grand
River Ave Detroit 27 Mich
Morris Machine Tool Co 333 Harriet St Cincinnati 3 Ohio (Automatic piston)
NWAkimoff—See Vibration Specialty Co
Olsen Testing Machine Co Tinius 2990 Easton Rd Willow Grove Pa "Electrodyne"
RCA-Arlin—See Radio Corp of America
Radio Corp of America Detroit Industrial
Products 13541 Auburn Ave Detroit 23
Mich "RCA-Arlin" (Crank pins piston
pins etc)

MACHINES, Boring, Drilling and Milling (Horizontal)

Buhr Machine Tool Co 835 Greene 8t Ana
Arbor Mich
Bullard Co 286 Canfield Ave Bridgeport 9
Conn
Consolidated Machine Tool Div Farrell-Birmingham Co 565 Blossom Rd Rochester 16
N Y "Sellers"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matlic"

Mich "RCA-Arlin" (Crank pins piston pins etc)
Snyder Tool & Engrg Co 3400 E Lafayette
Ave Detroit 7 Mich (Connecting rod.
Taylor Dynamometer & Machine Co 4411
River Parkway Milwaukee 13 Wis "HI-Eff"
Toledo Scale Co Telegraph Rd Toledo 13 Ohio
Vibration Specialty Co 190 W Glenwood Ave
Philadelphia 40 Pa "NWAkimoff"
Westinghouse Electric Corp 3 Gateway Center Pitteburgh 20 Pa

Pittsburgh 30 Pa

MACHINES, Balancing (Wheel)

Alemite—See Stewart-Warner Corp Balance Master—See Manbee Equip Div Bean Mr Co Bean Div Food Machinery & Chemical Corp John 1305 B Cedar St Lansing 4 Mich 'John Bean." "Visubalancer" (Dynamic) Bear Mrg. Co., 21st St. & Fifth Ave., Rock

Island II Co., Box 569, Davenport, Iowa. Bee-Line Co., Box 569, Davenport, Iowa. Bennett-Feragen 1408 Jerome St Niles Mich Big Four Industries Inc 5939 Carthage Court Cincinnati Ohio

Bennett-Feragen law Jerome St Nies mich Big Four Industries Inc 5938 Carthage Court Cincinnati Ohio Hemmeter Corp 57 Evelyn Ave Mountain View Calif "Hemmeter Dial-O-Matic" Hunter Engrg Co Hunter Ave & Ladue Rd St Louis H Mo "Tune-In" John Bean—See John Bean Div Food Machinery & Chemical Corp Keel & Co 65 W Penn St Philadelphia 44 Pa Manbee Equip Div Bear Mfg Co P O Box 607 Rock Island Ill "Balance Master" & "Port-O-Balance Master—See Manbee Equip Moveco—See Morgan Wheel & Equipment Co Port-O-Balance Master—See Manbee Equip Div Bear Mfg Co Schildmeter Co, H. C., 212 N. Senate Ave. Indianapolis 4, Ind. "Seal Line."
Sal Line—See H. C. Schildmeter Co. Spedder Lid 3814 Fiedmont Ave Oakland Calif Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago Ill "Alemite" (Electronic)
Tune-In—See Hunter Engrg Co Visubalancer—See John Bean Div Food Mchy & Chemical Corp Weaver Mfg Co 2178 8 Ninth St Spring-field Ill (Dynamic)

MACHINES, Bar (Automatic)
Acme-Gridley—See National Acme Co
Cleveland Automatic Machine Co 4932 Beech
St Norwood Cincinnati 12 Ohio (Single
spindle)

spindle)
Cone Automatic Machine Co Windsor Vt
Greenlee Bros & Co 2100 12th St Rockford Ill
Motch & Merryweather Machinery Co 715
Penton Bidg Cleveland 13 Ohio

National Acme Co 170 E 131st St Cleveland 8
Ohio "Acme-Gridley"
New Britain Machine Co New Britain-Gridley Machine Div South St New Britain
Conn (Single spindle)
Warner & Swasey Co 5701 Carnegle Ave
Cleveland 3, Ohio.

Richards Co J A 903 Pitcher St Kalamazoo Mich "Multi Form"

MACHINES, Bending

Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis III Taylor-Winfield Corp 1052 Mahoning Ave NW Warren Ohio

MACHINES, Bonding (Adhesive)

Modern Industrial Engrg Co 14230 Birwood Ave Detroit 38 Mich

MACHINES, Boring (Cylinder)

Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO" Moline Tool Co 102 20th St Moline III Rivett Inc 20 Riverview Rd Brighton Boston Rivett Inc 35 Mass

N Y "Sellers"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Defiance—See Kempsmith Machine Co

enance—See kempsmith Machine Co & L and Hypro Div Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis "G & L" ray Co G A 3611 Woodburn Ave Cin-cinnati Ohio (Floor and planer type) dex Machine & Tool Co 543 N Mechanic St Joskyan Wieb

Gray Co G A 3611 Woodburn Ave Cincinnati Ohio (Floor and planer type)
Index Machine & Tool Co 543 N Mechanic
St Jackson Mich
Ingersoll Milling Machine Co Rockford Ill
Kearney & Trecker Corp 6809 W National
Ave Milwaukee 14 Wis
Kempsmith Machine Co 1819 S 71 St West
Allis 14 Wis "Deflance"
Lucas Machine Div New Britain Machine Co
12302 Kirby Ave Cleveland 8 Ohio
Michigan Drill Head Co 11449 Timken Ave
Van Dyke Mich
Morris Machine Tool Co 913 Harriet St Cincinnati 3 Ohio
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
New Britain Machine Co New Britain
Gridley Machine Div South St New Britain Conn

Portage Machine Co 1025 Sweitzer Ave Akron

Onlo Roto-Matic—See Davis & Thompson Co Sellers—See Consolidated Machine Tool Div Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.

MACHINES, Boring, Drilling and Tapping

Barnes Co W F & John 201 S Water St Rock-ford Ill Buhr Machine Tool Co 839 Greene St Ann Arbor Mich (Horizontal & vertical) Bullard Co 286 Canfield Ave Bridgeport 2 Conn (Vertical)

Conn (Vertical)

Burg Tool Mfg Co 15001 S Figueroa St Los
Angeles Calif "Burgmaster" (Horizontal)

Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 10 Wis

Foote-Burt Co 13000 St Clair Ave Cleveland
8 Ohio

reenlee Bros & Co 2100 12 St Rockford

III
Hole Hog—See Moline Tool Co
Kaukauna Machine & Fdry Div Giddings &
Lewis Machine Tool Co 1000 Lincoln Ave
Kaukauna Wis
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis
Moline Tool Co 102 20th St Moline III "Hole
Hog"

Hog" orris Machine Tool Co 933 Harriet St Cin-Mo

Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Natco—See National Automatic Tool Co
National Automatic Tool Co S Seventh &
N Sts Richmond Ind "Natco"
Snyder Tool & Engrg Co 3400 E Lafayette
Ave Detroit 7 Mich

MACHINES, Boring and Facing

Barnes Co W F & John 201 8 Water St Rockford III

Rockford III
Betts—See Consolidated Machine Tool Div
Consolidated Machine Tool Div Farrel-Birmingham Co 566 Blossom Rd Rochester 10
N Y "Betts"
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"
Fitchburg Engineering Corp Cleghorn St
Fitchburg Mass
Hole Hog—See Moline Tool Co

Moline Tool Co 102 20th St Moline Ill "Hole MACHINES, Boring (Piston Pin Bush- MACHINES, Broaching Seneca Falls Machine Co 314 Fall St Seneca Falls N Y Falls N Y achine Tool Corp N Broadway Albany 1 N Y (Horizontal)
Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.
XLO—See Ex-Cell-O Corp

MACHINES, Boring (Horizontal)

Baker Bros Inc P O Box 101 Sta F Toledo MACHINES, Boring and Turning Co., W. F & John, 201 S. Water St., ford, Ill. Rockford.

Hockford, III.

Barnes Drill Co.. 826 Chestnut St., Rockford,
III. "Barnesdri."

Betts—See Consolidated Machine Tool Div.
Bullard Co 286 Canfield Ave Bridgeport 9

Conn to a so can be a solution of the consolidated Machine Tool Div Farrell-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts" "Newton" Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic" Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO" Fitchburg Engineering Corp Cleghorn St Fitchburg Mass Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio Conn

o Unio G & L and Hypro Div Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis "G & L" Greeniee Bros & Co 2100 12th St Rockford

cester 6 Mass
Hole Hog-See Moline Tool Co
Le Blond Machine Tool Co R K Madison &
Edwards Rds Cincinnati 6 Ohio "Le BlondCaristedt"
Lucas Machine Tool

Caristedt'
Lucas Machine Div New Britain Machine
Co 12302 Kirby Ave Cleveland 8 Ohio
Moline Tool Co 102 20th St Moline Ill "Hole
Hogi"
Morton Mfg. Co., Broadway & Hoyt St.,
Muskegon Heighta, Mich.
National Automatic Tool Co., S. Seventh & N Sta., Richmond, Ind.
Newton—See Consolidated Machine Tool Div
Olofsson Corp 2727 Lyons Ave Lansing 2
Mich

Mich

Mich RotoMatic—See Davis & Thompson Co Simplex Machine Tool Corp 4548 W Mitchell St Milwaukee 48 Wis Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7. Mich XLO—See Ex-Cell-O Corp

MACHINES, Boring (Main Bearing and Connecting Rod)

Ammeo Tools Inc 2100 Commonwealth Ave North Chicago Ili (Main and camenaft

bearing)
edar Rapids Engineering Co 902 17th NE
St Cedar Rapids Iowa "Kwik-Way" (Main

bearing)
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"

52 Mich "XLO" Fulmer Co., C. Allen, 1211 First National Bank Bidg., Cincinnati, Ohio. Kwik-Way-See Cedar Rapids Engineering

Lempco empco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bear-Ing.)
Storm-Vulcan Inc 2225 Burbank St Dallas
19 Tex

19 Tex
Sunnen Products Co., 7910 Manchester Ave.,
St. Louis 17, Mo.
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 25 Minn
Winona Tool Mfg. Co., 1430 W. Broadway.
Winona, Minn. "Wi-To-Co."
Wi-To-Co—See Winona Tool Mfg. Co.
XLO—See Ex-Cell-O Corp

MACHINES, Boring and Milling

De Viles Machine Co 459 Fall Ave Ferndale Detroit 20 Mich "Spiramatic Jigmil" (Horizontal)

ECCO—See Ekstrom Carlson & Co
Ekstrom Carlson & Co 1400 Railroad Ave
Rockford Ill "ECCO" (Boring and profiling
Fitchburg Engineering Corp Cleghorn St
Fitchburg Mass

Rockford II "BULU Golden Rockford III" BULU Golden St Fitchburg Mass Hill Inc Walter P 22183 Telegraph Rd Detroit 19 Mich Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis Knight Machinery Co W B 3920 W Pine St St Louis 8 Mo

ght Machinery
Louis 8 Mo
der Tool & Engrg Co 3400 E Lafayette

St Louis 5 MO Snyder Tool & Engrg Co 3400 E Lafayette Ave Detroit 7 Mich Spiramatic Jigmil—See De Vlieg Machine Co Wean Equipment Corp 22828 Lakeland Blvd Euclid Cleveland 17 Ohio

Cedar Rapids Engrg Co 902 17th St NE Cedar Rapids Ia "Kwik-Way"

Lex-Cell-O Corp 20 Oakman Blvd Detroit 32 Mich "XLO"

Kwik-Way-See Cedar Rapids Engrg Co Tobin-Arp Mfg Co 6400 Fenn Ave S Minneapolis 23 Minn.

See Ex-Cell-O Corp

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Clausing" Axelson Mfg Co P O Box 58335 Vernon Sta

Mich "Clausing"
Axelson Mig Co P O Box 58335 Vernon Sta
Los Angeles 58 Calif
Betts—See Consolidated Machine Tool Div
Bryant Chucking Grinder Co 257 Clinton St
Springfield Vt
Springfield Ave Bridgeport 9

Bullard Co 286 C Conn (Vertical)

Conn (Vertical)
Clausing—See Atlas Press Co
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Betts" & "Newton"
Ex-Cell-O Corp 1200 Cakman Blvd Detroit
32 Mich "XLO"
[6 & L. and Blvd]

L and Hypro Div Giddings & Lewis chine Tool Co 142 Doty St Fond du Lac a "G & L" & "Hypro" (Vertical) n & Dilts—See New Britain Machine

Wis Wis "G & L & Hypro (vertical)
Hoern & Dilts-See New Britain Machine
Co Hoern & Dilts Div
Hypro-See G & L and Hypro Div
King Machine Tool Div American Steel
Foundries 1150 Tennessee Ave Cincinnati
29 Ohio "King" (Vertical)

29 Ohio "King" (Vertical)

Motch & Merryweather Mehy Co 715 Penton
Blyd Cleveland 13 Ohio (Vertical)

New Britain Machine Co Hoern & Dilts Div
925 Rust St Saginaw Mich "Hoern &
Dilts" (Precision contour)

New Britain Machine Co New Britain-Gridley Machine Div South St New Britain
Conn (Precision)

Newton—See Consolidated Machine Tool Div
XLO—See Ex-Cell-O Corp

MACHINES, Boring, Turning and Facing (Horizontal)

ing (Horizontal)

Bore-Matic—See Heald Machine Co.

Cross Co 17801 E 14 Mile Rd Fraser Mich

Ex-Cello Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"

Heald Machine Co 10 New Bond St Worcester 6 Mass "Bore-Matic"

Natco—See National Automatic Tool Co

National Automatic Tool Co S 7th & N Sts
Richmond Ind "Natco"

Olofson Corp 2730 Lyon Ave Lansing Mich

MACHINES, Boring (Vertical)

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio

Barnes Co W F & John 301 S Water St Rockford III Barnes W F & John 301 S Water St Rockford III

Betts-See Consolidated Machine Tool Div Bullard Co 286 Canfield Ave Bridgeport 9

Bullard Co 286 Canfield Ave Bridgeport 9
Conn
Colburn—See Consolidated Machine Tool Div
Colladay Machine Works, 125 E. Luray St.,
Philadelphia 20, Pa.
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Betts" "Colburn" "Sellers"
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"
Footburt"
Footburt Co., 13000 St. Clair Ave., Cleveland, Ohlo, "Footburt"
G & L and Hypro Div Giddings & Lewis
Machine Tool Co 142 Dotv St Fond du Lac
Wis "G & L" & "Hypro"
Gaynes Engry Co 1642 W Fulton St Chicago
12 Ill (Multiple spindle)
Hole Hog—See Moline Tool Co

Hypro—See G & I, and Hypro Div Moline Tool Co 102 20th St Moline III "Hole Hog"

Hog"
National Acme Co., 170 E. 131st St., Cleve-land 8, Ohlo.
National Automatic Tool Co S Seventh & N Sts Richmond Ind
New Britain Machine Co New Britain-Grid-ley Machine Div South St New Britain

Conn
Pratt & Whitney Co Charter Oak Blvd West
Hartford : Conn
Rogers Machine Works Inc 61 N Main St
Alfred N Y
Sellers—See Consolidated Machine Tool Div
Snyder Tool & Engra. Co., 3400 E. Lafayette
Ave., Detroit 7, Mich.
XLO—See Ex-Cell-O Corp

MACHINES, BROACH GRINDING-See Ma-chines, Grinding (Broach)

MACHINES, Broaching

American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.

Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio "Hydro-Broach"

Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich

Detroit Broach & Machine Co 950 S Rochester Rich

Elestrom, Carlson & Co., 1439 Railroad Ave., Rockford, Ill.

Flexible Power—See General Mfg Co

Poote-Burt Co., 13000 St. Clair Ave., Cleveland, Ohio.

Foote-Burt Co., 13000 St. Clair Ave., Cleve-land, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich. "Flexible Power."
Hydro-Broach—See Cincinnati Milling Ma-chine Co.
Lapointe Machine Tool Co., 34 Tower St. Hudson, Mass. "Lapointe Hudson."
Ploneer Broach Co. 6434 E Telegraph Rd Los Angeles 22 Calif Zagar Tool Inc 24000 Lakeland Blvd Cleve-land 23 Ohio

MACHINES, Brushing

Osborn Mfg Co 5401 Hamilton Ave NE Cleve-land 14 Oblo

MACHINES, Buffing and Polishing (See also Machines, Flexible Shaft [Portable Electric])

Acme Mfg Co 1400 E Nine Mile Rd Ferndale Detroit 20 Mich Automatic Buffing Machine Co., 222 Chicago St., Buffalo 4, N. Y. Baldor Electric Co 4351 Duncan Ave St

Louis 10 Mo
Blount Co J G 10 Woodland St Everett 49

Blount Co J G 10 Woodland St Everett 49 Mass
Bradford Machine Tool Co 722 Porter St
Lansing 5 Mich "Metalmaster"
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
Cincinnait Electrical Tool Co 300 Mt Hope
Ave Cincinnait 4 Ohio

Delta-Rockwell—See Rockwell Mfg Co Divine Bros. Co., 200 Seward Ave., Utica 1, N. Y.

N. Y.
Dixon Inc William 32 E Kinney St Newark
1 N J
Excelsior Tool & Machine Co 31st St &
Ridge Ave East St Louis III
Grinding & Polishing Machinery Corp
2530 Winthrop Ave Indianapolis 5 Ind

2530 Winthrop Ave Hausen 2530 Winthrop Ave Hausen 2530 Winthrop Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich Hanson-Van Winkle-Munning Co Matawan N J "H-VW-M"
Hisey-Wolf Machine Co Galvin & Mt Hope Aves, Cincinnait 4, Ohio.

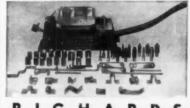
K H W—See K R Wilson Inc
L & K Mfg Co 547 Elm St Arlington N J
Marschke—See Grinding & Polishing Ma-

L& K Mfg Co 577 Elm St Albert Marchke—See Grinding & Polishing Machinery Corp Metalmaster—See Bradford Machine Tool Co. Micro-Polish—See Murray-Way Corp O Box 180 Maple Rd E Birmingham Mich "Micro-Polish"

Packer Machine Co., 456 Center St., Meriden, Conn. "Packermatic."
Porter-McLeod Machine Tool Co Prospect

Conn. "Packermatic."
Porter-McLeod Machine Tool Co Prospect
St Hatfield Mass
Reco—See Reynolds Electric Co.
Reynolds Electric Co., 3000 River Rd., River
Grove, Ill. "Reco."
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington and Pittsburgh 8 Pa "DeltaRockwell"

N Lexington and Pittsburgh No. Rockwell"
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio



RICHARD S

MULTIFORM BENDER-CUTTER 4-IN-ONE-Angle Bending, Circle Bending, Cutting, Punching Kolomozeo, Mich.

Circle 240 on Inquiry Card for more data

MACHINES, Buffing and Polishing -continued

Stevens, Inc., Frederic B., 1800 18th St., De-16. Mich. Thor Power Tool Co 175 State St Aurora

Ill
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Valley Electric Corp., 4221 Forest Park
Elyd., St. Louis, Mo.
Walker-Turner Div Rockwell Mfg Co 400 N
Lexington Ave Pittsburgh 8 Pa
Wilson Inc R Arcade N Y "K R W"

MACHINES, Centering

MACHINES, Centering
Central Engrg Co 930 Erie St Racine Wis
Espen-Lucas Machine Works, Front St. &
Girard Ave., Philadelphia, Pa.
Ex-Cello Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"
HW-See Hanson-Whitney Co
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW"
Seneca Falls Machine Co 314 Fall St Seneca
Falls N Y
XLO—See Ex-Cell-O Corp

MACHINES, CENTERING and DRILLING-See Machines, Drilling and Centering

MACHINES, Chilling (Industrial)

Cincinnati Sub Zero Products 3932 Reading Rd Cincinnati 29 Ohio "Sub-Zero" Revco Inc 48 Forest Ave Deerfield Mich Sub-Zero—See Cincinnati Sub-Zero Products Tenney Engrg Inc 1090 Springfield Rd Union

Webber Engrg Corp P O Box 217 Indianapolis 6 Ind

MACHINES, Chucking (Multiple Spin-

Acme-Gridley-See National Acme Co. Baird Machine Co., 1700 Stratford Ave.,

Acme-Gridley—See National Acme Co.
Baird Machine Co., 1700 Stratford Ave.,
Stratford, Conn.
Bullard Co 286 Canfield Ave Bridgeport S
Conn "Contin-U-Matic" "Mult-Au-Matic"
Cone Automatic Machine Co., Windsor, Vt.
Contin-U-Matic—See Bullard Co.
Nult-Au-Matic—See Bullard Co.
National Acme Co 170 E 13ist St Cleveland
8 Ohio "Acme-Gridley" (Automatic)
New Britain Machine Co., New Britain-Gridley Machine Div.. South St., New Britain,
Conn. (Automatic.)
Warner & Swasey Co 8701 Carnegie Ave
Cleveland 2 Ohio (Automatic)

MACHINES, Chucking (Single Spindle) National Acme Co 170 E 131 St Cleveland 8 Ohio "Chuck-Matic" (Automatic) Potter & Johnson Co 1027 Newport Ave Pawtucket H I Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio (Automatic)

MACHINES, Coiling (Spring)

C&M-See Coulter & McKenzie Machine Co Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn "C & M" Sleeper & Hartley Inc 325 Chandler St Wor-cester 2 Mass Torrington Mfg. Co., Torrington, Conn.

MACHINES. Cutting-Off

Allison-Campbell Div of American Chain & Cable Co 929 Connecticut Ave Bridgeport

Cable Co 929 Connecticut Ave Bridgeport 8 Conn "Campbell" Bardons & Oliver Inc 1133 W Ninth St Cleveland 13 Ohio (Automatic and semiautomatic)
Bar-matic—See Producto Machine Co.
Bridgeport Abrasaw—See United Engrg &

Bridgeport Abrasaw—See United Engrg & Fdry Co
Campbell — See Allison-Campbell Div of American Chain & Cable Co
Cincinnati Electrical Tool Co 200 Mt Hope
Ave Cincinnati 4 Ohio
Cone Automatic Machine Co Windsor Vt
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Elossom Rd Rochester 10
N Y "Newton"
Continental Machine Co 2345 W Nelson St
Chicago 18 III
Delta-Rockwell—See Rockwell Mfg Co
de Sanno & Son A P Wheatland St Phoenixville Pa "Radlac"
De Wait Inc Fountain Ave Lancaster Pa
Di-Acro—See O'Neli-Irwin Mfg Co
Do All Co., 254 N. Laurel Ave., Des Plaines
III.

Espen-Lucas Machine Works, Front St. & Girard Ave., Philadelphia 23, Pa. Grob Inc Grafton Wis Heinrich Tools Inc 2707 Industrial Drive Racine W.s "Heinrich Handnib" Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y

McKay Machine Co 825 W Federal St Youngstown Ohlo Modern Machine Tool Co 2005 Losey Ave Jackson Mich

Multiform—See J. A. Richards Co.
Newton—See Consolidated Machine Tool Div
O'Neil-Irwin Mfg. Co., Lake City, Minn.
"Di-Acro"

O'Nell-Irwin Mfg. Co., Lake
"Di-Acro."
Porter-McLeod Machine Tool Co., Prospect
St., Hatfield, Mass.
Producto Machine Co., 990 Housatonic Ave.,
Bridgeport 1, Conn. "Bar-matic."
Racine Hydraulics & Machinery Inc 2006
Albert St Racine Wis
Radiac-See A. P. de Sanno & Son.
Richards Co J A 903 N Pitcher St Kalamazoo Mich "Multiform"

Produced Mfg. Co Delta Power Tool Div 400

ockwell Mfg Co Delta Power Tool Div 400 N Lexington and Pittsburgh 8 Pa "Delta-Rockwell" eneca Falls Machine Co 314 Fall St Seneca Falls N Y

Seneca Falls Machine Co 314 Fall St Seneca Falls N Y
Steel Products Engrg Div Kelsey-Hayes Co 1205 W Columbia St Springfield Ohio Tabor Mfg Co Div of Turbo Machine Co 840 W Main St Lanadale Pa "Tabor Abrasive" (Abrasive wheel)
Tannewitz Works 215 Front Ave N W Grand Rapids 2 Mich (Abrasive).
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich (Automatie)
Ty-Sa-Man Mchry Co 1000 White Ave Knoxville 1 Tenn
United Engrg & Fdry Co Wilmington Plant P O Box 1108 Wilmington 99 Del "Bridgeport Abrasaw" (Abrasives)
Wadsworth Equipment Co 2477 Mogadore Rd Akron 12 Ohio (Core)
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Yoder Co 5552 Walworth Ave., Cleveland 2, Ohio.

MACHINES, Degreasing and Washing (Metal Parts)

(Metal Falts)

A.F.—See Alvey Ferguson Co
Acoustica Associates Inc Shore Rd Glenwood
Landing L I N Y (Ultrasonic)
Aeroil Products Co G Wesley St South
Hackensack N J
Air-Matic—See Protectoseal Co.

Air-Push Spragit-See Sprague Devices Inc

Alvey-Ferguson Co. 2131 Disney St. Oakley Cincinnati 9 Ohio "A-F" Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. "Typhoon." (Centrif-

Barrett Equipment Co 2101 Cass Ave St MACHINES, Die Sinking Louis 6 Mo Louis & Mo
Blakeslee & Co G S 1844 S Iaramie Ave
Cicero & Ill "Niagara" "Blakeslee"
Branson Ultrasonic Corp 27 Brown House
Rd Stamford Conn "Sonogen" (Ultrasonic

generators)

Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio Circo Equipment Co 120 Central Ave Clark (Rahway) N J

(Rahway) N J Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.

Curtiss-Wright Corp Princeton Div PO Box 110 Princeton N J (Ultrasonie) Detrex Chemical Industries Inc Box 501 De-troit 32 Mich

troit 32 Mich
De Vilbiss Metal Fabricators Co 17900 Ryan
Rd Detroit 12 Mich (Combined belt conveyorized washer and dryer)
Drying Systems Co 1810½ Foster Ave Chicago 40 Ill "Dry-Sys"

Dry-Sys-See Drying Systems Co

Brynsys-See Drying Systems Co
Eclipse Fuel Engineering Co 1111 Buchanan
8t Rockford III
Graymills Corp 3705 N Lincoln Ave Chicago
Henry & Wright Div of

International Conveyor & Washer Corp., 652
E. Fort St., Detroit 28, Mich.
J P Mfg Co 338 E Front St Youngstown 3 MACHINES; Drawing (Bar and Wire) Ohio

Kelite Corp 1250 N Main St Los Angeles Calif

-See Practical Products Co

Kleer-Flo-See Practical Products Co.

1. & R Mfg Co 577 Eim St Arlington N J

Lorco-See Lord Chemical Co

Lord Chemical Co 2068 S Queen St York Pa

"Lorco" (Barrels)

Magnus Chemical Co 185 South Ave Garwood N J "Magnus Aja-Dip" "Magnus

Miji-Dip" "Magnus Aja-Dip" "Magnus

Miji-Lif"

Co R C 6565 E 8 Mile Rd Detroit 34 (Combined belt conveyorized washer Mich (Combined Set Control of Manufacturers Processing Co 1360 Hilton Rd Ferndale 20 Mich Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J Phillips Mfg Co 3475 Touhy Ave Chicago 45 Ill "Phillips Torrent"

Pioneer-Central Div Eclipse-Pioneer Div Bendix Aviation Corp 2754 Hickory Grove Ave Davenport Iowa (Ultrasonic) Practical Mfg Co 2840 Fourth Ave S Min-neapolis 8 Minn "Kleer-Flo" Protectoseal Co., 1920 S. Western Ave., Chi-cago 5, ili. "Air-Matit." Ranschoff Inc N 5th St at Ford Blvd Ham-ilton Ohio

Ransohoff Inc N 5th St at Fold Dive Alamiliton Ohio
Schmieg industries Inc 29330 Sherwood St
Detroit 34 Mich Detroit 34 Mich
Simplicity Engrg Co Durand 1 Mich
Sonogen—See Branson Ultrasonic Corp
Sprague Devices Inc 500 Huron St Michigan
City Ind "Air Push Spragit" (Air operated)

Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

Stevens inc Frederic B leve lett St. Betwie 16 Mich
Storm-Vulcan Inc 2225 Burbank St Dallas 13 Tex
Turco Products, Inc., 6135 S. Central Ave.,
Los Angeles I, Calif.
Typhoon—See Leon J. Barrett Co.
U. S. Galvanizing & Plating Equipment
Corp., 27-41 Hevward St., Brooklyn. N. Y.
Waukee Engrg Co 5138 N 35th St Milwaukee 9 Wis
Wilson Inc K R Arcade N Y
Winona Tool Mfg, Co., 1430 W. Broadway,
Winona, Minn. "Wi-To-Co."
Wi-To-Co—See Winona Tool Mfg, Co.

MACHINES, Die Casting

American Die Casting Machinery Co 1516 W Thomas St Chicago 22 Ill Cleveland Automatic Machine Co 4932 Beech St Norwood Cincinnati 12 Ohio Federal Die Casting Co 2222 Elston Ave Chi-

cago 14 III
Harvill Mfg. Co., H. L., P. O. Box 177,
Corona, Calif.
Hydraulic Press Mfg. Co., Mount Gliead,

Kux Machine Co 6725 N Ridge Ave Chicago 26 Ill

26 III
Lake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y
Lester Engrg. Co., 2711 Church Ave., Cleveland 13. Ohlo. (Sole distributors. LesterPhoenix, Inc., 2711 Church Ave., Cleveland

Procents, inc., 211 charter are, corrected at 13, Ohio.)
Lewis Welding & Engrg Corp 1 Interstate St Bedford Ohio
Reed-Prentice Corp 677 Cambridge St Worcester 4 Mass
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.
Cincinnati Milling Machine Co 4701 Marburg
Ave Cincinnati 9 Ohio "Hydro-Tel"
Gorton Machine Co., George, 1131 W, 18th
St., Racine, Wis.
H-P-M—See Hydraulic Press Mfg. Co.
Hydraulic Press Mfg. Co., Mount Gliead,
Ohio. "H-P-M"
Hydro-Tel—See Cincinnati Milling Machine
Co.

Kux Machine Co., 3924 Harrison St., Chicago, Oliver Instrument Co 1406 E Maumee St Adrian Mich Pratt & Whitney Co Charter Oak Blvd West Hartford I Conn Reed-Prentice Corn, 877 Cambridge St., Worcester, Mass.

Worcester, Mass. Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N

Henry & Wright Div of Emhart Mfg Co 760 Windsor St Hartford 1 Conn

Ajax Mfg. Co., 441 Chardon Rd., Cleveland 17, Ohio. "Ajax-Hogue." Waterbury Farrel Foundry & Machine Co 453 Bank St Waterbury 20 Conn (Wire)

MACHINES, Drilling (Automatic)

MACHINES, Drilling (Automatic)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky

Baker Bros Inc P O Box 101 Sta F Tolede 10 Ohio

Barnes Drill Co., 826 Chestnut St., Rockford, Ill. "Barnesdril."

Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.

Govro-Nelson Co 1931 Antolnette St Detroit 8 Mich

Spring Sp

Hill Inc Walter P 22183 Telegraph Rd Detroit 19 Mich

19 Mich
Kent Machine Co., 113 Portage Trail, Cuyahoga Falls. Ohio.
Kingsbury Machine Tool Corp Laurel St
Keene N H
Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio
Rehnberg-Jacobson Mfg. Co., 2135 Kishwaukee St., Rockford, Ill.
Snyder Tool & Engineering Co., 3400 E. Lafayette Ave., Detroit 7, Mich.

MACHINES, Drilling, Bench (Hand)

North Bros Mig Co Div Stanley Tools American St & Lehigh Ave Philadelphia 33 Pa "Yankee"
Yankee—See North Bros Mfg Co

MACHINES, Drilling, Bench (Power)

Atlas Press Co 1842 N Pitcher St Kalamasoo Mich "Atlas" & "Clausing" Mich "Atlas" & "Clausing" Boice-Crane Co., 930 W. Central Ave., Toledo Ohio

Cincinnati Lathe & Tool Co Cincinnati 9 Ohlo Clausing-See Atlas Press Co

Clausing—See Atlas Frees Co Delta-Rockwell—See Rockwell Mfg Co Dumore Co 1300 17th St Racine Wis Leiand-Gifford Co Box 989 Worcester Mass Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell South

Rockwell"
outh Bend Lathe Works 425 E Madison
St South Bend 22 Ind
Falker-Turner Div Rockwell Mfg Co 400 N
Lexington Ave Pittsburgh 8 Pa Wall

MACHINES, Drilling (Duplex)

Frew Machine Co., 125 E. Luray St., Phila delphia 20, Pa.

MACHINES, Drilling (Heavy Duty)

Baker Bros Inc P O Box 101 Sta F Toledo Boic -Crane Co., 930 W. Central Ave., Toledo

Boice-Crane Co., Sev. V.

6. Ohlo.
Colburn—See Consolidated Machine Tool Div
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 16
N Y "Colburn"

MACHINES, Drilling (Horizontal)

(See also Machines, Boring, Dr and Milling [Horizontal])

and Milling [Herizontal])
Baker Bros Inc P O Box 101 Sta F Toledo
10 Ohlo,
Barnes Co., W. F. & John, 201 S. Water St.,
Rockford, Ill.
Barnes Drill Co 826 Chestnut St Rockford Ill
Baush Machine Tool Co 156 Wason Ave
Springfield 7 Mass
Frew Machine Co., 125 E. Luray St., Philadelphia 20, Pa.,
Hole Hog—See Moline Tool Co
Kaukauna Machine Div Giddings & Lewis
Machine Tool Co 1000 Lincoln Ave Kaukauna Wis Machine Tool Co 1000 Lincoln Ave Kau-kauna Wis ent Machine Co 113 Portage Trail Cuya-hoga Falls Ohio oline Tool Co 102 20th St Moline III "Hole

Moline Tool Co 102 20th St and Horis Hog"

Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio (Duplex)

Co., Broadway and Hoyt Sts.,

cinnati 3 Ohlo (Duplex)
Morton Mfg. Co., Broadway and Hoyt Sts.,
Muskegon Heights Mich.
National Automatic Tool Co., S. Seventh &
N Sts., Richmond, Ind.
Pratt & Whitney Co Charter Oak Bivd West
Hartford 1 Conn
Rehnberg-Jacobson Mfg. Co., 2135 Kishwaukee St., Rockford, Ill.
Seneca Falls Machine Co., 314 Fall St.,
Seneca Falls, N. V.
Snyder Tool & Engrg Co 3400 E Lafayette
Ave Detroit 7 Mich

MACHINES, Drilling (Multiple Spindle Adjustable)

Tool Co., 156 Wason Ave., Baush Machine Springfield, Mass. loice-Crane Co., 930 W. Central Ave., Toledo 6. Ohio.

6, Ohio.
Hole Hog-See Moline Tool Co
Hole Hog-See Moline Tool Co
Moline Tool Co 102 20th St Moline III "Hole
Hog" Natco.—See National Automatic Tool Co. National Automatic Tool Co., S. Seventh & N Sts., Richmond, Ind. "Natco."

MACHINES, Drilling (Multiple Spindle Horizontal and Vertical)

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Atlas" "Clausing" (Vertical) Avey Drilling Machine Div of Motch & Merryweather Michy Co 25 E Third St Covington Ky

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Drill Co., 826 Chestnut St., Rockford, Ill. "Barnesdril." (Vertical.)
Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Bolee-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Budalo Forge Co 490 Broadway Buffalo 4

N Y
Buhr Machine Tool Co., 839 Greene St., Ann
Arbor, Mich.
Cincinnati Bickford Div Giddings & Lewis
Machine Tool Co 3220 Forrer St Cincinnati 9 Ohlo "Super-Service"
Clausing—See Atlas Press Co
Cleereman Machine Tool Corp 600 Elizabeth

nati 9 Ohio "Super-Service"
Clausing—See Atlas Press Co
Cleereman Machine Tool Corp 600 Elizabeth
St Green Bay Wis
Colburn—See Consolidated Machine Tool Div
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Colburn" (Vertical)
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Delta-Rockwell—See Rockwell Mfg Co Delta
Power Tool Div

over Tool Div co Machine Co 3100 Sheridan Rd Kenosha

Fitchburg Engrg Corp Cleghorn St Fitchburg

Mass
Footburt—See Foote-Burt Co
Footburt—See Foote-Burt Co,
13000 St. Clair Ave., Cleveland, Obio. "Footburt."
Fosdick Machine Tool Co., Blue Rock &
Anple Sts., Cincinnati 23, Obio.
Fox Engrs Co 1336 Francis St Jackson Mich
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Hole-Hog—See Molina Tool Co.

Greenlee Bros. & Co., 2100 12th St., Rockford, III.
Hole-Hog—See Moline Tool Co
Kent Machine Co 113 Portage Trail Cuyahoga
Falla Ohlo (Horizontal)
Kingsbury Machine Tool Corp Laurel St
Keene N H
Leland-Gilford Co Box 989 Worcester Mass
Michigan Drill Head Co 11449 Timken Ave
Van Dyke Mich
Moline Tool Co 102 20th St Moline III "Hole
Hog"

Hog"
Morris Machine Tool Co 938 Harriet St Cincinnati 2 Ohio
Natco—See National Automatic Tool Co.
National Automatic Tool Co., S. Seventh & N Siz., Richmond, Ind. "Natco."
Pratt & Whitney Co Charter Oak Blvd West Hartford Conn
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "Delta-Bockwell"

N Lexington Ave Pittsburgh 8 Pa. "Delta-Rockwell"
Root Co B M Prospect & Sherman Sts York, Pa.
Roto-Matic—See Davis & Thompson Co Sibley Machine & Foundry Corp 206 E Tutt St South Bend 28 Ind (Vertical)
Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7. Mich.
Super Service—See Cincinnati Bickford Div Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 3 Pa. (Vertical)
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio "Cintidrill"

MACHINES, Drilling (Portable)-See Drills,

MACHINES, Drilling (Radial)

MACHINES, Drilling (Radial)

American Tool Works Co., Pearl & Eggleston Aves., Cincinnati 2, Ohio.

Carlton Machine Tool Co., Spring Grove Ave. & Meeker St., Cincinnati, Ohio. "Carlton-Leber"

Cincinnati Bickford Div Giddings & Lewis Machine Tool Co 2320 Forrer St Cincinnati 9 Ohio "Super-Service"

Cincinnati Lathe & Tool Co Cincinnati 9 Ohio "Super-Service"

Cincinnati Lathe & Tool Co Cincinnati 9 Ohio "Hardelad"

ECCO—See Ekstrom Carlson & Co Ekstrom Carlson & Co Ekstrom Carlson & Co 1400 Railroad Ave Rockford II "ECCO"

Foote-Burt Co., 13000 St. Clair Ave., Cleveland 3, Ohio. "Hammond."

Fosdick Machine Tool Co., Blue Rock & Apple Sts., Cincinnati 23, Ohio.

Hammond—See Foote-Burt Co.

Hardelad—See Cincinnati Lathe & Tool Co Morris Machine Tool Co 232 Harriet St Cincinnati 3 Ohio "Mor-Speed"

Mor-Speed—See Morris Machine Tool Co. Super-Service—See Cincinnati Bickford Dit Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa

Western Machine Tool Works 255 W Ninth St Holland Mich

MACHINES, Drilling (Sensitive)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo
10 Ohlo
Boice-Crane Co., 930 W. Central Ave., Toledo
6, Ohlo.

Buffalo Forge Co 490 Broadway Buffalo 4

N Y
Burg Tool Mfg Co 15001 S Figueroa St Los
Angeles Calif
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
Delta-Rockwell—See Rockwell Mfg Co
Dumore Co 1300 17th St Racine Wis

Ave. & Charlotte St., Lancaster, Pa.
Delta-Rockwell—See Rockwell Mfg Co
Dumore Co 1300 17th St Racine Wis
Foote-Burt Co., 13000 St. Clair Ave., Cleveland, Ohlo. "Sipp."
Fosdick Machine Tool Co., Blue Rock &
Apple Sts., Cincinnati 23, Ohlo. "Fosdick,"
"Fosmatic."
Hamilton Tool Co 9th & Hanover Sts Hamilton Ohlo "Hamilton" & "Varimatic"
Hi-Eff—See Taylor Dynamometer & Machine
Co.

Co.
High Speed Hammer Co 313 Norton St
Rochester 21 N Y
Leland-Gifford Co Box 989 Worcester Mass
National Automatic Tool Co., S. Seventh &
N Sts., Richmond, Ind.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "Delta-

Rockwell"
Sibley Machine & Foundry Corp 206 E Tutt
St South Bend 23 Ind
Sipp—See Foote-Burt Co.
Taylor Dynamometer & Machine Co 6411
River Parkway Milwaukee 15 Wis "HI-Eff"

Varimatic-See Hamilton Tool Co

MACHINES, Drilling (Ultrasonic)

Acoustica Associates Inc Shore Rd Glenwood Landing L I N Y

Aurora Tool Works, 6751 Merwin Ave., Cipcinnati 27, Ohio.
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co., W. F., & John, 301 S. Water St., Rockford, Ill.
Barnes Drill Co., 826 Chestnut St., Rockford, Ill.

Boice-Crane Co., 930 W. Central 6. Ohio. Buhr Machine Tool Co 839 Greene St Ann Arbor Mich Champion Blower & Forge Co., Harrisburg

Arbor Mich
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
Cincinnati Bickford Div Giddings & Lewis
Machine Tool Co 2320 Forrer St Cincinnati
9 Ohio "Super-Service"
Cleereman Machine Tool Corp 600 Elizaleth
St Green Bay Wis (Sole distributors
Bryant Machinery & Engineering Co 640
W Washington Bivd Chicago 6 III)
Colburn—See Consolidated Machine Tool Div
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Colburn"

Consolidated and the control of the

N Y "Colburn"
Dalzen Mfg Co 525 S Riverside St St Clair
Mich (Combination center grinder and
and drill press)
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Delta-Rockwell—See Rockwell Mfg Co
Dremei Mfg. Co., 2420 18th St., Racine, Wis.
"Moto-Tool."
Footburt—See Foote-Burt Co.
Foote-Burt Co., 13000 St. Clair Ave., Cleveland, Ohio. "Footburt."
Fosdick Machine Tool Co., Blue Rock &
Apple Sis., Cincinnati 23, Ohio.
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
High Speed Hammer Co 313 Norton St
Rochester 21 N Y
Moto-Tool—See Dremel Mfg. Co.
National Automatic Tool Co., S. Seventh &
N Sts., Richmond, ind.
Rehnberg-Jacobson Mfg. Co., 2135 Kishwaukee St., Rockford III.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "DeltaRockwell"
Foomlus Tool & Engrg Co 13581 Huron River
Formlus Tool & Engrg Co 13581 Huron River

Rockwell' Rockwell' Romulus Tool & Engrg Co 13581 Huron River Dr Romulus Mich Roto-Matic—See Davis & Thompson Co. Sibley Machine & Foundry Corp 206 E Tutt St South Bend 23 Ind Snow Mfg. Co., 435 Eastern Ave., Bellwood, Ill.

South Bend Lathe Works 425 E Madison St South Bend 22 Ind

METAL CLEANING EQUIPMENT AND CHEMICALS

Degreasers—Perm-A-Clor Degreasing Solvents—Soni-clean Degreasers — Spray Washers — Cleaning & Phosphate Coating Compounds—Spray Booth Coat-ing & Conditioning Compounds

DETREX CHEMICAL INDUSTRIES, INC. Box 501, Detroit 32, Mich.

Circle 241 on Inquiry Card for more data

MACHINES, Drilling (Vertical) -continued

Super-Service—See Cincinnati Bickford Div Wales-Strippit Co Akron N Y Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa Western Machine Tool Works 255 W Ninth St Holland Mich

MACHINES, Drilling and Centering

Fitchburg Engineering Corp Cleghorn St Fitchburg Mass Loswing—See Seneca Falls Machine Co. Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y. "Lowsing." (Auto-

Snyder Tool & Engrg Co 3400 E Lafayette Ave Detroit 7 Mich Sundstrand Machine Tool Co 2531 11th St Rockford III

MACHINES, Drilling and Reaming

MACHINES, Drilling and Reaming
Agnew Machine Co 121 S Main St Milford
Mich (Special types)
Baush Machine Tool Co 186 Wason Ave
Springfield 7 Mass
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich
Fox Engrg Co 1336 Francis St Jackson Mich
Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee
St Rockford Ill
Roto-Matic—See Davis & Thompson Co
Seneca Falls Machine Co 314 Fall St Seneca
Falls N Y

MACHINES, Drilling and Tapping

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohlo
Barnes Co W F & John 201 S Water St
Rockford III
Barnes Drill Co 826 Chestnut St Rockford III
Baush Machine Tool Co., 156 Mason Ave.,
Springheld 7, Mass.
Beckett-Harcum Co 1140 Wayne Rd Wilmington Ohlo "Beckett" (Automatic)
Bodine Corp 217 Mt Grove St Bridgeport 5
Conn (Dial type)
Buhr Machine Tool Co 839 Greene St Ann
Arbor Mich

Arbor Mich

Arbor Mich
Burg Tool Mfg Co 15001 S Figueroa St Los
Angeles Calif "Burgmaster" (Turret type)
Cleereman Machine Tool Corp 600 Elizabeth
St Green Bay Wis (Sole distributors
Bryant Mchry & Engrg Co 640 W Washington Blyd Chicago 6 Ill)
Cleveland Tapping Machine Co Canton 6
Obio

Ohio
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis
Deita-Rockwell—See Rockwell Mfg Co
Ediund Machinery Co Div of Harsco Corp
37 Huntington St Cortland N Y (Sensitive)
Foote-Eurt Co., 1300 St. Clair Ave., Cleveland 8, Ohio.
Fox Engrg Co 1238 Francis St Jackson Mich
Govro-Nelson Co 1931 Antoinette St Detroit

8 Mich nlee Bros & Co 2100 12th St Rockford

Hartford Special Machinery Co 287 Home-stead Ave Hartford 12 Conn (Automatic) Kaufman Mfg Co 29th St & Meadow Lane Manitowoc Wis

Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-

N Lexination Ave Pittsburgh 8 Pa "Delta-Rockwell"

Seneca Falls Machine Co 314 Fall St Seneca Falls N Y

Snyder Tool & Engrg Co 3400 E Lafayette Ave Detroit 7 Mich

MACHINES, Drying (Metal Parts) (For drying and brightening small metal parts)

metal parts)
American Laundry Machinery Co Norwood
Station Cincinnati 12 Obio
American Machine & Metals Inc Tolhurst
Centrifugal Div East Moline III "Tolhurst"
Barrett Co. Leon J., 1477 Grafton St., Worcester, Mass. "Cyclone." (Centrifugal.)
Blakeslee & Co G S 1844 S Laramie Ave
Cicero 50 III

Cincinnati Cleaning & Finishing Machinery Co 317 Hecia St Ironton Ohio Circo Equipment Co 120 Central Ave Clark (Rahway) N J Cyclone—See Leon J. Barrett Co

etrex Chemical Industries Inc Box 501 De-troit 32 Mich

troit 32 Mich
De Vilbiss Metal Fabricators Co 17900 Ryan
Rd Detroit 12 Mich (Combined belt conveyorized washer and dryer)
International Conveyor & Washer Corp 652
E Fort St Detroit 26 Mich
Mahon Co R C 6565 E Eight Mile Rd Detroit
34 Mich (Combined belt conveyorized
washer and dryer)
Metalwash Machinery Corp 901 North Ave
Elizabeth 4 N J
Paasche Airbrush Co., 1709 Diversey Parkway, Chicago 14. Ill
Ransohoff Inc N 5th St at Ford Blvd Hamilton Ohlo

ton Ohio

ton Ohlo Steiner-Ives Co Springfield Rd Union N J Tolhurst-See American Machine & Metals Inc Tolhurst Centrifugal Div U S Galvanizing & Plating Equipment Corp 27-41 Heyward St Brooklyn N Y

MACHINES, Duplicating (Metal)

Keller—See Pratt & Whitney Co O'Nell-irwin Mig Co Lake City Minn "Di-Arco" (Die-less) Pratt & Whitney Co Charter Oak Blvd West Hartford I Conn "Keller"

MACHINES, Electrical Discharge

Elox Corp of Michigan 1830 N Stephenson Highway Royal Oak 3 Mich (For die sink-ing, grinding, boring, etc)

MACHINES, Electro-Spark

Ex-Cell-O Corp 1200 Oakman Blvd Detroit 22 Mich "XLO"

MACHINES, Expanding (Hydraulic)

Grotnes Machine Works Inc 5454 N Wolcott Ave Chicago 40 Ill

MACHINES, Fabric Cutting Eastman Machine Co., 779 Washington St., Buffalo, N. Y.

MACHINES, Fabric Drilling

Eastman Machine Co., 779 Washington St.,

MACHINES, Filing

(See also Machines, Sawing and Filing)

Filing)
Grob Inc Grafton Wis (Die)
High Speed Hammer Co 313 Norton St
Rochester 21 N Y
Illinite—See Illinois Tool Works
Illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Illinite" (Die)
Keller—See Sales Service Machine Tool Co
Oliver Instrument Co 1406 E Maumee St
Advian Wich

Oliver Instrument Co 1406 E Maumee St Adrian Mich Rice Pump & Machine Co 600 Park St Bel-gium Wis "Rice Milwaukee" Sales Service Machine Tool 2363 University Ave St Paul 14 Minn "Keller" Wardwell Mfg Corp 3805 Ridge Ave Cleve-land 3 Ohio (Automatic saw)

Kaufman Mig Co 29th St & Meadow Lane
Manitowoc Wis
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"
Kingsbury Machine Tool Corp Laurel St
Keene N H (Automatic)
Michigan Drill Head Co 11449 Timken Ave
Van Dyke Mich
Morris Machine Tool Co 983 Harriet St Cinclinnati 3, Ohio
Natco—See National Automatic Tool Co.
National Automatic Tool Co, S. Seventh &
N Sts., Richmond, Ind. "Natco."
MACHINES, Flash Trimming
Morton Mig. Co. Broadway & Hoyt St.,
Muskegon Heights, Mich.

MACHINES, Flexible Shaft (Portable
Electric)

(Portable flexible shaft machines

attachments for grinding, polishing, sanding, etc.)
Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa. "Sloux."
Coolfiex—See Precise Products Corp Dixon Inc William 32 E Kinney St Newark 1 N J

1 N J
Dumore Co 1300 17th St Racine Wis
Haskins Co., R. G., 2651 W. Harrison St.,
Chicago 27, Ill.
Jarvis Corp Middletown Conn
Kellerflex—See Pratt & Whitney Co
L & R Mig Co 577 Elm St Arlington N J
Martindale Electric Co., 1346 Hird Ave.,
Cleveland 7, Ohio. "Martindale MotorFlex."

Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Kellerflex"

Precise Products Corp 3715 Blue River Rd Racine Wis "Coolfiex"

Racine Wis "Coolfiex"
Sloux—See Albertson & Co.
Stow Mfg Co 443 State St Binghamton N Y
Walker-Turner Div Rockwell Mfg Co 400 N
Lexington Ave Pittsburgh 8 Pa.
Wyco—See Wyzenbeek & Staff, Inc.
Wyzenbeek & Staff Inc 223 N California Ave
Chicago 12 Ill "Wyco"

MACHINES, Forging

Acme-See Hill Acme Co Acme Machinery Mfg Co 1441 Charon Rd Cleveland 17

Ohlo
Chambersburg Engrg Co Derbyshire St
Chambersburg Pa (Automatic)
Hill Acme Co Acme Machinery Div 1201 W
65th St Cleveland 2 O "Acme"
Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohlo

National Machinery Co., Tiffin, Ohio.

MACHINES, Forming (Cold Roll)

Bath Co Cyril 22280 Aurora Rd Solon Ohlo Grotnes Machine Works Inc 5454 N Wolcott St Chicago 40 III Kane & Roach Inc Niagara & Shonnard Sts Syracus 4 N Y

Syracuse 4 N Y
McKay Machine Co 825 W Federal St
Youngstown Ohio
Ningara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexto."
Pexto—See Peck, Stow & Wilcox Co.
Richards Co J A 903 N Pitcher St Kalamazoo
Mich (Air operated also hand operated)
Tishken Products Co 1300 W Eight Mile Rd
Detroit 37 Mich
Yoder Co., 5553 Walworth Ave., Cleveland 2,
Ohio.

MACHINES, Forming (Metal)

Baird Machine Co 1700 Stratford Ave Strat-ford Conn (Automatic for wire and ribbon)

MACHINES, Forming (Radial Draw)

Bath Co Cyril 22280 Aurora Rd Solon Ohio

MACHINES, Galvanizing

Barrett Co Leon J 477 Grafton St Wor-cester Mass "Whizo" (Centrifugal) Meaker Co 1629 S 55th Ave Chicago 50 Ill (Electro)

(Electro)
U S Galvanizing & Plating Equipment Corp
27-41 Heyward St Brooklyn N Y (Electro)
Whizo-See Leon J. Barrett Co.

MACHINES, Gear Cutting

Barber-Colman Co., 1300 Rock St., Rock-

Barber-Colman Co., 1300 Rock St., Rock-ford. III
Farrel-Birmingham Co 77 Main St Ansonia Conn "Farrel-Sykes"
Fellows Gear Shaper Co., 78 River St., Springfield, Vt.
G. & E.—See Gould & Eberhardt, Inc.
Gleason Works, 100 University Ave., Rochester 3, N. Y.
Gould & Eberhardt, Inc., 433 Fabyan Place, Irvington 11, N. J. "G. & E."
Michigan Tool Co., 7171 McNichola Rd., E.
Detroit 12, Mich.
Mill-matic—See Producto Machine Co.
P & J Newark—See Potter & Johnston Co
Potter & Johnston Co 1027 Newport Ave
Fawtucket R I "P & J Newark" (Automatic)

matic)
Producto Machine Co., 990 Housatonic Ave.,
Bridgeport I, Conn. "Mill-matic."
Waltham Machine Works, 296 Newton St.,
Waltham, Mass.

MACHINES, Gear Hobbing

Barber-Colman Co., 1300 Rock St., Rock-ford, Ill.

Iord, III.

G. & E.—See Gould & Eberhardt, Inc.
Gould & Eberhardt, Inc., 433 Fabyan Place,
Irvington 11, Newark, N. J. "G. & E."
Hamilton Tool Co 9th & Hanover Sts Hamilton
Koepfer—See George Scherr Co.

ton
Koepfer—See George Scherr Co
Lees-Bradner Co., Elmwood Ave. & W.
121st St., Cleveland 11, Ohio.
Michigan Tool Co 7171 McNichols Rd E Detroit 12 Mich
Scherr Co George 200 Lafayette St New
York 12 N Y "Koepfer"

MACHINES, GEAR LAPPING-See Machines.

MACHINES, Gear Shaving

Fellows Gear Shaper Co 78 River St Spring-field Vt Michigan Tool Co 71/1 McNichols Rd E De-troit 12 Mich National Broach & Machine Co., 5606 St. Jean Ave., Detroit 18, Mich. "Red Ring."

MACHINES, GEAR TESTING—See Machines, MACHINES, Grinding (Cylinder)

MACHINES, Gear Tooth Chamfering and Finishing

and Finishing

Cross Co 17801 E 14 Mile Rd Fraser Mich

Gerac—See Illinois Tool Works

Gleason Works 1000 University Ave Rochester 2 N Y

Illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Gerac"

Michigan Tool Co., 7171 McNichols Rd., E. Detroit 12, Mich. (Finishing.)

Modern Industrial Engrg Co 14230 Birwood Ave Detroit 38 Mich

National Broach & Machine Co 5600 St Jean

Ave Detroit 13 Mich

Cester 6 Ma

MACHINES,

(Automatic, 12 Michem 12 Michem

MACHINES, GEAR TOOTH GRINDING-See Machines, Grinding (Gear Tooth)

MACHINES, Glass Beveling and Grind-

Lange Machine Works Henry G 156 N May St Chicago 7 Ill Somaca-See Sommer & Maca Glass Ma-chinery Co. Sommer & Maca Glass Machinery Co., 3600 S. Oakley Ave., Chicago 9, Ill. "Somaca."

MACHINES, Gluing (Wood) Black Bros. Co., 800 Third St., Mendota, Ill Francis Co., Chas. E., Huntington, Ind.

MACHINES, Grinding (Ball Race)

Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohio "Micro-Centric"
Landis Tool Co Sixth St Waynesboro Pa
Micro-Centric—See Cincinnati Grinders Inc.
Van Norman Machine Co 3640 Main St
Springfield 7 Mass

MACHINES, GRINDING, BENCH (ELEC-TRIC)—See Grinders, Bench (Electric)

MACHINES, Grinding (Broach)

American Broach & Machine Co 415 W Huron St Ann Arbor Mich Grinder Co., 1534 W. Main St., Springfield, Ohio.

MACHINES, Grinding (Cam)

Bryant Chucking Grinder Co 257 Clinton St Springfield Vt Landis Tool Co Sixth St Waynesboro Pa Norton Co., 1 New Bond St., Worcester 6

owbottom Machine Co Sheffield St Water-bury 14 Conn

MACHINES, Grinding (Centerless)

(Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohio Heald Machine Co 10 New Bond St Wor-cester 6 Mans Landis Tool Co Sixth St Waynesboro Pa Production Machine Co 311 Wells St Green-

field Mass
Royal Master Inc State Highway No 23
Riverdale N J

Nachine Co 3640 Main St 'an Norman Machine Co 3640 Main St Springfield 7 Mass

MACHINES, Grinding (Chucking)

Bryant Chucking Grinder Co., 257 Clinton St., Springfield, Vt. Bullard Co 286 Canfield Ave Bridgeport 9 Conn (Vertical)

Conn (Vertical)
Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohlo
Landis Tool Co Sixth St Waynesboro Pa
Norton Co 1 New Bond St Worcester 6 Mass
Springfield Machine Tool Co 631 Southern
Ave W Springfield Ohio

MACHINES, Grinding (Drill)
Black Diamond Saw & Machine
North Ave Natick Mass "Black
"Worcester" (Sole distributor
Blake Co 437 Cherry St West

MACHINES, Grinding (Contour) Baker Bros Inc P O Box 101 Sta F Toledo 10

Ohic Cleveland Grinding Machine Co 1643 Eddy Rd Cleveland 12 Ohlo "Visual Grind" Visual Grind—See Cleveland Grinding Ma-chine Co

MACHINES, Grinding (Crankpin)

Norton Co 1 New Bond St Worcester 6 Mass

MACHINES, Grinding, Crankshaft (Production)

Landis Tool Co Sixth St Waynesboro Pa Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. Norton Co 1 New Bond St Worchester 6 Mass "Crank-O-Matic"

(See also Machines, Honing [Cylinder]) Heald Machine Co 10 New Bond St Wor-cester 6 Mass

Grinding, Cylindrical (Automatic)

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Cedar Rapids Engrg Co 902 17th St NE Cedar Rapids Ia Hammond Machinery Builders, Inc., 1621 Douglas Ave., Kalamazoo 54, Mich.
Norton Co 1 New Bond St Worcester 6 Mass (Semi-automatic)

MACHINES, Grinding, Cylindrical (Plain)

(Plain)
Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohio
Farrel-Birmingham Co., 37 Main St., Ansonia, Conn.
Landis Tool Co Sixth St Waynesboro Pa Norton Co., 1 New Bond St., Worcester 6, Mass.

MACHINES, Grinding, Cylindrical (Universal)

Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohio

MACHINES, Grinding (Die)

Abrasive Machine Tool Co., Dexter Rd., East Providence 14, R. I. Bianchard Machine Co., 64 State St., Cam-bridge 39, Mass. Covel Mfg. Co., Graham Ave., Benton Har-bor, Mich. Peters Tool Co., 114 E. Scott St., Milwaukee 4. Wis. Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn United States Electrical Tool Co 3620 Llew-elyn St Cincinnati 23 Ohio

MACHINES, Grinding (Disc)

Besly-Welles Corp 20 N Wacker Drive Chiradford Machine Tool Co 722 Porter St Lansing 5 Mich "Metalmaster"

Lansing 5 Mich "Metalmaster"
Delta-Rockwell—See Rockwell Mfg Co
Gardner Machine Co., 444 E. Gardner St.,
Belott, Wis.
Hisey-Wolf Machine Co Galvin & Mt Hope
Aves Cincinnati 4 Ohio
Kindt-Collins Co., 12551 Elmwood Ave.,
Cleveland 11, Ohio. "Master."
Master—See Kindt-Collins Co.
Mattison Machine Works 545 Blackhawk
Park Ave Rockford III
Metalmaster—See Bradford Machine Tool Co.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"

Rockwell Co E S 499 San Fernando Rd Los Angeles 31 Calif United States Electrical Tool Co 3620 Llew-elyn St Cincinnati 23 Ohio

Black Diamond Saw & Machine Works #1 North Ave Natick Mass "Black Diamond" "Worcester" (Sole distributors Edward Blake Co 437 Cherry St West Newton 65

Blake Co 437 Cherry St West Newton 65 Mass)
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Sellers"
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Delta-Rockwell—See Rockwell Mfg Co Dumore Co 1300 17th St Racine Wis Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio McDonough Mfg. Co. (Machine Tool Dept.), 1500 Galloway St., Eau Claire, Wis. "Sterling."
Oliver Instrument Co 1406 E Maumee St Adrian Mich Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Sellers—See Consolidated Machine Tool Div Sterling.—See McDonough Mfg Co Worcester—See Black Diamond Saw & Machine Works

MACHINES, Grinding (Face)

Besly-Welles Corp 20 N Wacker Dr Chiro 6 III Machine Works 545 Blackhawk Park Ave Rockford Ill

MACHINES, Grinding (Form)

Sheffield Corp 721 Springfield St Dayton 1

MACHINES, Grinding (Gear Tooth)

Fellows Gear Shaper Co 78 River St Spring-field Vt "Fellows-Reishauer"

field Vt "Fellows-Reishauer"

Gear Grinding Machine Co., 3901 Christopher
Ave., Detroit II, Mich.

Gleason Works, 1000 University Ave.

Rochester 3, N. F.

National Broach & Machine Co., 5600 St.

Jean Ave., Detroit 13, Mich "Red Ring."

Pratt & Whitney Co Charter Oak Blvd West
Hartford I Conn

Red Ring—See National Broach & Machine
Co.

Hartion Harting See National Drogs. Red Ring—See National Drogs. Van Norman Machine Co 3640 Main St Springfield 7 Mass (Hob)

MACHINES, Grinding (Hob)

Barber-Colman Co., 1300 Rock St., Rock ford, Ill.

MACHINES, Grinding (Internal)

MACHINES, Grinding (Internal)
Abrasive Machine Tool Co., Dexter Rd., East Providence 14, R. I.
Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Bryant Chucking Grinder Co., 257 Clinton St., Springfield, Vt.
Gage-Matic—See Heald Machine Co.
Gear Grinding Machine Co., 3601 Christopher Ave., Detroit 11, Mich.
Heald Machine Co 10 New Bond St Worcester 6, Mass. "Size-Matic." "Gage-Matic." (Plain and automatic.)
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Lempco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
Parker-Majestic Inc 147 Jos Campau Ave Detroit 7 Mich Co Charter Oak Blvd West Hartford 1 Conn

Hartford I Conn Rivett Lathe & Grinder Inc., 20 Riverview Rd., Brighton, Boston, Mass. Size Matic—See Heald Machine Co.

MACHINES, Grinding (Jig)

Moore Special Tool Co 740 Union Ave Bridgeport 7 Conn

MACHINES, GRINDING (PISTON)-See Ma-

MACHINES, Grinding (Piston Ring)

Lehmann-Brandes Machine Co 3560 Chouteau Ave St Louis 2 Mo

MACHINES, GRINDING (PORTABLE)—See Grinders, Portable

MACHINES, GRINDING (Profile)—See Ma-chines, Profiling

MACHINES, Grinding (Radius)

Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn Van Norman Machine Co 3640 Main St Springfield 7 Mass (Oscillating type)

MACHINES, Grinding (Reamer and Cutter)

Barber-Colman Co., 1300 Rock St., Rock-ford, Ill.

ford, Ill.
Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 3 Ohio "Monoset"
"Projecto-Form" (Cutter)
Covel Mig. Co., Graham Ave., Benton Harbor, Mich. "Covel," "Excel."
Davis Boring Tool Div of Giddings & Lewis Machine Tool Co 475 S Seymour St Fond du Lac Wis (Cutter)
Excel—See Covel Mig. Co.
Gallmeyer & Livingston Co., 346 Straight Ave., Grand Rapids 4, Mich. "Grand Rapids."

Ave., Grand Rapids 4, Mich. "Grand Rapids." Gorton Machine Co., George, 1131 W. 13th St

Racine, Wis. Grand Rapids—See Gallmeyer & Livingston

Grand Rapids—see Gammer.

Co
Ingersoll Milling Machine Co Rockford Ill
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"
Lee Co. K. O., Congress at First Ave., S. E.,
Aberdeen S D
McDonough Mfg. Co. (Machine Tool Dept.),
1500 Galloway St., Eau Claire, Wis.
"Sterling." Monoset-See Cincinnati Milling Machine Co

MACHINES, Grinding (Reamer and Cutter)-continued

Norton Co., 1 New Bond St., Worcester 6,

Mass.
Oliver Instrument Co 1406 E Maumee St
Adrian Mich
Panto—See H. P. Preis Engraving Machine

Co.
Pratt & Whitney Co Charter Oak Bivd West
Hartford 1 Conn (Cutter)
Preis Engraving Machine Co H P 647 Highway No 22 Hillside N J "Panto" (Cutter)
Projecto-Form—See Cincinnati Milling Machine. Co
Sterling—See McDonough Mfg. Co.
Union Twist Drill Co., Monroe St., Athol,
Mass.

Maga

Waltham Machine Works Inc 296 Newton St Waltham Mass (Cutter) Wardwell Mfg Corp 3805 Ridge Ave Cleve-land 9 Ohlo (Automatic flute)

MACHINES, Grinding (Saw)

Espen-Lucas Machine Works, Front St. &
Girard Ave., Philadelphia 23, Pa.

Hanchett Mfg Co 906 W State St Big Rapids
Mich (Band and circular)

Wardwell Mfg Corp 3805 Ridge Ave Cleveland 9 Ohio (Automatic)

MACHINES, Grinding (Spline Shaft) Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich. Thompson Grinder Co., 1534 W. Main St.. Springfield, Ohio.

MACHINES, Grinding (Springs, Washers, Etc.) Besly-Welles Corp 20 N Wacker Drive Chi-

cago 6 Ill GRINDING (SUPERFINISH. MACHINES, GRINDING (SUPERFING)—See Machines, Superfinishing

MACHINES, Grinding (Surface)

Abrasive Machine Tool Co., Dexter Rd., East Providence 14, R. I. Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass. (Rotary.) Besly-Welles Corp 20 N Wacker Drive Chi-cago 6 III

Blanchard Machine Co., 64 State St., Cam-

Blanchard Machine Co., 64 State St., Cambridge 39, Mass.
Boyar-Schultz Corp 2000 S 25th Ave Broadview III (Hydraulic)
Bridgeport—See United Engrg & Fdry Co
Brown & Sharpe Mfg. Co., 235 Promenade
St., Providence, R. I.
Cincinnati Grinders Inc 4701 Marburg Ave
Cincinnati 9 Ohio
Covel Mfg Co Graham Ave Benton Harbor
Mich "Covel" "Excel"

Covel Mig Co Granam Ave Benton Harbor Mich "Covel" "Excel" Curtis Machine Div Carborundum Co 1300 E Second St Jamestown N Y Delta-Rockwell—See Rockwell Mfg Co Delta Power Tool Div Do All Co., 254 N. Laurel Ave., Des Plaines,

Bit.

Bit.

Excel—See Covel Mfg Co
Foote-Burt Co 13000 St Clair Ave Cleveland
8 Ohio "Hammond"
Frauenthal Div Haydon Engrg Corp Sherman Ave Muskegon Mich
Galimeyer & Livingston Co., 346 Straight
Ave., Grand Rapids 4, Mich.
Gardner Machine Co., 444 E. Gardner St.,
Beloit, Wis.
Hammond—See Foote-Burt Co
Hanchett Mfg Co 306 N State St Big Rapids
Mich

Mich Heald Machine Co 10 New Bond St Worcester 6 Mass (Internal and rotary)
Hill Acme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Vertical and horizontal)
Lempco Products Inc 6490 Dunham Rd Bedford Ohio
Mattison Machine Works 545 Blackhawk Park
Ave Rockford Ill (Horizontal and vertical

Ave Ro spindle)

Co., 1 New Bond St., Worcester 6,

Oloffson Corp 2727 Lyons Ave Lansing 2 Mich Parker-Majestle Inc 147 Jos Campau Ave Detroit 7 Mich (Also rotary) Peterson Machine Tool Inc 6200 Merriam Dr

Merriam Kans Pratt & Whitney Co Charter Oak Blvd West

Hartford 1 Conn Reid Bros. Co., 138 Elliott St., Beverly, Mass. Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-

Rockwell Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio Taft-Peirce Mfg Co 12 Mechanic Ave Woonsocket R I (Also rotary and reciprocating)

Thompson Grinder Co., 1534 W. Main St., Springfield, Ohio. (Hydraulic.) Tillis Mfg Co 301 W Franklin St Elkhart

United Engrg & Fdry Co Wilmington Plant P O Box 1108 Wilmington 99 Del "Bridge-

United States Electrical Tool Co 3620 Llew-elyn St Cincinnati 23 Ohio Equip Co 3649 fass (Horizontal Norman Automotive Equal 1 St Springfield 7 Mass

and rotary)
Wean Equipment Corp 22828 Lakeland Blvd
Euclid Cleveland 17 Ohio

MACHINES, Grinding (Swing Frame)

Grand Haven Brass Fdry 230 N Hopkins St Grand Haven Mich Grinding & Polishing Machinery Corp 2530 Winthrop Ave Indianapolis 5 Ind "Mar-

Winthrop Ave Indianapoles Schke"

Marschke—See Grinding & Polishing Machinery Corp

Mummert-Dixon Co., Philadelphia & Gay
Sts., Hanover, Pa.
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

MACHINES, Grinding (Tap)

Blake Co., Edward, 437 Cherry St., West Newton 65, Mass. (Chamfer and flute.) Rocket—See Rockford Die & Tool Works Rockford Die & Tool Works Inc 1816 17th Ave Rockford III "Rocket" Wardwell Mfg Corp 3805 Ridge Ave Cleve-land 9 Ohio (Automatic)

MACHINES, GRINDING (Thread)-See Ma chines, Thread Grinding

MACHINES, Grinding (Tool)

Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo Decker Mfg Co 629 Pennsylvania owson 4 Md

Black & Deck int Co J G 10 Woodland St Everett 49

Mass olce-Crane Co 930 W Central Ave Toledo 6 Ohio Bradford Machine Tool Co 722 Porter St

Bradfold Machine Tool Co 722 Porter St
Lansing 5 Mich
Brown & Sharpe Mfg. Co., 235 Promenade
St. Frovidence, R. I.
St. Frovidence, R. I.
St. Providence, R

Delta-Rockwell-See Rockwell Mfg Co Delta Fower Tool Div
Diamond Tool Co 246 Broadway South
Haven Mich "Grinder-Lap" "Coolie Grinderlap" (Carbide)
DoAll Co., 254 N. Laurel Ave., Des Moines,

TH

III.

Dumor Co 1300 17th St Racine Wis

Excel—See Covel Mfg Co

Ex-Cello Corp 1200 Oakman Blvd Detroit
32 Mich "XLO" (Carbide)

Foote-Burt Co 13000 St Clair Ave Cleveland

8 Ohio
Gallmeyer & Livingston Co., 348 Straight
Ave., Grand Rapids 4, Mich.
Gisholt Machine Co., 1307 E. Washington
Ave., Madison, Wis.
Grinder-Lap—See Diamond Tool Co.
Hacre & Son, E. F., 98-02 217th Lane, Queens
Village 9, L. I., N. Y. (Carbide.)
Hammond Machinery Builders, Inc., 1621
Douglas Ave., Kalamazoo 54, Mich.
Hanchett Mfg Co 906 N State St Big Rapids
Mich.

Mich
Heald Machine Co 10 New Bond St Worcester f Maes
Hisey-Wolf Machine Co Galvin & Mt Hope
Aves Cincinnati 4 Ohio
Landis Tool Co Sixth St Waynesboro Pa
Lanointe Machine Tool Co., 24 Tower St.,
Hudson, Mass. "Lapointe Hudson."
Lee Co., K. O., Congress at First Ave., S. E.,
Aberdeen S D
Lippmann Engineering Works Inc 4603 W

Aberdeen S D
Lippmann Engineering Works Inc 4603 W
Mitchell St Milwaukee Wis "Ransom"
McDonough Mfg. Co (Machine Tool Dept.),
1500 Galloway St., Eau Claire, Wis.
"Sterling." (Olistone.)
Mummert-Dixon Co Philadelphia & Gay Sts
Hanover Pa

National Acme Co., 170 E. 181st St., Cleve-land 8. Ohio

Norton Co 1 New Bond St Worcester 6 Mass "Norton Bura-way" Norton Bura-way Diver Instrument Co 1406 E Maumee St Adrian Mich (Carbide) Oliver

Peters Tool Co 114 E Scott St Milwaukee 4

Wis
Powermatic—See Wesson Tool Co
Pratt & Whitney Co Charter Oak Blvd West
Hartford I Conn
Prosser & Son Thomas Felter Bidg Tenafiy
N J (For carbide, cast alloys and high
speed steel tools)

Ransom-See Lippman Engineering Works Inc Reuland Electric Co 3001 W Mission Rd Al-

hambra Calif ockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell

N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Sellers—See Consolidated Machine Tool Div
South Bend Lathe Works 426 E Madison St
South Bend 22 Ind
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Sterling—See McDonough Mfg. Co. (Machine Tool Dept.)
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Valley Electric Co., 4221 Forest Park Bivd., St. Louis, Mo.
Wesson Tool Co 12200 Woodward Heights
Bivd Ferndale 20 Mich "Powermatic"
Wickman Mfg Co 10325 Capitol Ave Oak Park
Detroit 37 Mich "Wickman-Neven" (Carbide) Carbida Teol Co. 1240 W. Vernow.

's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.
Wissota Mfg Co 1301 S 3rd St Minneapolis
Minn
XLO—See Ex-Cell-O Corp.
Yates-American Machine Co., Beloit, Wis.

MACHINES, Grinding (Universal)

Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. Cincinnati Grinders Inc 4701 Marburg Ave (Oakley) Cincinnati 9 Ohio Covel Mfg. Co., Graham Ave., Benton Harbor, Mich. "Covel." "Excel." Excel." Excel.—See Covel Mfg. Co., 346 Straight Ave., Grand Rapids. 4, Mich. "Grand Rapids."

Ave., Rapids.

Grand Rapids—See Gallmeyer & Livingston Co. chett Mfg 906 N State St Blg Rapids Ha Mich

Landis Tool Co Sixth St Waynesboro Pa Norton Co., 1 New Bond St., Worcester 6,

Mass.
Rivett Lathe & Grinder, Inc., 20 Riverview
Rd., Brighton. Boston 35, Mass.
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Springfield Machine Tool Co 631 Southern
Ave W Springfield Ohlo

MACHINES, Grinding & Polishing

Curtis Machine Div Carborundum Co 1300 E Second St Jamestown N Y Delta-Rockwell-See Rockwell Mfg Co Delta

Delta-Rockwell—See Rockwell Mfg Co Delta
Power Tool Div
Excelsior Tool & Machine Co 31st St &
Ridge Ave East St Louis III
G & P—See Grinding & Polishing Machinery
Corp
Grinding & Polishing Machinery Corp 2530
Winthrop Ave Indianapolis 5 Ind "G&P"
(Abrasive belt)

(Abrasive belt)
Hammond Machinery Bidrs Inc 1621 Douglas
Ave Kalamazoo 54 Mich
Hill Acme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Abrasive belt)

Mattison Machine Works 545 Blackhawk Park Ave Rockford III (Abrasive belt) Production Machine Co 311 Wells St Green-field Mass

Re ockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-

MACHINES, Heat Treating

Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio "Flamatic" (Flame hardening) Flamatic—See Cincinnati Milling Machine Co

General Electric Co Apparatus Labs Div 1 River Rd Schenectady 5 N Y

River Rd Schenectady 5 N Y Gleason Works 1909 University Ave Roch-ester 3 N Y (For flame hardening of gears) Gradiation—See Selas Corp of America Inductali—See Westinghouse Electric Corp Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J Selas Corp of America Dresher Pa "Gradia-tion"

Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa "Inductali"

MACHINES, Honing (Cylinder)

Ammeo Tools Inc 2100 Commonwealth Ave North Chicago III Barnes Co., W. F. & John, 301 S. Water st. Rockford, III

st. Rockford, III
Barnes Drill Co., 226 Chestnut St., Rockford,
III. "Barnesdril."
Fulmer Co C Allen 1211 First National Bank
Bldg Cincinnati Ohio
Hole Hog-See Moline Tool Co
Hydrohoners—See Micromatic Hone Corp.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Microhoners—See Micromatic Hone Corp
Micromatic Hone Corp 3100 Schoolcraft Ave
Detroit 38 Mich "Hydrohoners" "Microhoners"

Detroit 38 Mich "Hydrononers" "Micro-honers"

Moline Tool Co 102 20th St Moline III "Hole Hog"

Staple Engrg Co 1315 8 Woodward Ave Bir-mingham Mich

Storm-Vulcan Inc 2225 Burbank St Dallas Storm-Ve 19 Tex

19 Tex Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. Van Norman Automotive Equip Co 3640 Main St Springfield 7 Mass Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Brake.)

MACHINES, Honing (Flat Surface)

Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich "Microflat"

MACHINES, Honing (Liquid)
Vapor Blast Mfg Co 3025 W Atkinson Ave
Milwaukee 16 Wis

MACHINES, Honing (Small Bore)

MACHINES, Honing (Small Bore)

Ammeo Tools, Inc., 2100 Commonwealtr
Ave., North Chicago, III.

Fulmer Co C Allen 1211 First National Bank
Bldg Cincinnati 2 Ohio
Lempeo Products, Inc., 6490 Dunham Rd.
Bedford, Ohio.

Microhoners—See Micromatic Hone Corp
Micromatic Hone Corp 3100 Schooleraft Ave
Detroit 38 Mich "Microfiat"
Reasor Mfg Co 13th & Indiana Ave St
Charles III
Staple Engineering Co., 1315 S. Woodward
Ave., Birmingham, Mich
Sunnen Products Co 7910 Manchester Ave St
Louis 17 Mo (Piston pln)
Superior Hone Corp 1605 Elreno St Elkhart
Independent Stephen Corp. 5400 Elymouth Ave.

Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

MACHINES, Induction Heating

(See also Furnaces, Induction Heating)

Ajax Electrothermic Corp 1490 Lower Ferry Rd Trenton 5 N J Allis-Chalmers Mfg Co Milwaukee 1 Wis Lindberg Engrg Co 2476 W Hubbard St Chi-cago 12 III

Lindberg Engris Co 2110
Cago 12 III
Magnethermic Corp \$990 Simon Rd Youngstown 7 Ohlo
Reeve Electronics Inc 605 W Lake St Chicago 6 III (Generators)
Welduction Corp 10230 Capital Ave Oak Park Vestinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 10 Pa

MACHINES. JIG GRINDING-See Machines, Grinding (Jig)

MACHINES, Key Cutting

MACHINES, Key Cutting

Armstead Industries 2900 N Mitchell St
Cadillac Mich "Duke"

Barber-Colman Co., 265 Loomis St., Rockford, II.
Detroit—See F W Stewart Corp
Duke—See Armstead Industries
Ilco—See Independent Lock Co.
Independent Lock Co., 45 Daniels St., Fitchburg, Mass. "Reo."
K R W—See K IB Wilson Inc
Stewart Corp F W 4311 N Ravenswood Ave
Chicago III "Detroit"
Wilson Inc K R Arcade N Y "K R W"

MACHINES, Keyseating

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton" Davis Keyseater Co 1239 University Ave Rochester 7 N Y Giant—See Mitts & Merrill Lapointe Machine Tool Co 24 Tower St Hudson Mass "Lapointe Hudson" Mitts & Merrill 1009 S Water St Saginaw Mich "Giant"
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Newton—See Consolidated Machine Tool Div

MACHINES, Kneading and Mixing

(Used in manufacture of lead storage battery pastes, battery Jars, pyroxylin solutions, emery wheel compositions, moided goods, etc.)

B-P—See Baker Perkins Inc.

Baker Perkins Inc Fraser & Young Sts Saginaw Mich "B-P"

Farrel-Birmingham Co 57 Main St Ansonia Conn (Rubber and plastic)

MACHINES, Lapping

(Oakley) Cincinnati 9 Ohio
Crane Packing Co 6435 Oakton St Morton
Grove II "Lapmaster"
Crank-O-Lap-New Novion Co
Diesel Control Corp Marine Pump Div of
228 N Marine Ave Wilmington Calif "Spiralap" (Rotary and hand)
Ex-Cello Corp 1200 Oakman Blvd Detroit
32 Mich "XLO" (Center)
Fellows Gear Shaper Co., 78 River St.,
Springfield, Vt. (Gear.)
Fulmer Co., C. Allen, 1211 First National
Bank Bidg., Cincinnati 2, Ohio. (Piston
ring.)
Gleason Works, 1000 University Ave.

Bank Bldg., Cincinnati 2, Ohlo. (Piston ring.)
Gleason Works, 1000 University Ave., Rochester 3, N Y
Hyprolap—See Norton Co
Industrial Metal Products Corp 3417 W St
Joseph St Lansing 1 Mich (Cepter)
Lapmaster—See Crane Packing Co.
Michigan Tool Co., 7171 McNichols Rd., E.,
Detroit 12 Mich (Gear)
Micromatic Hone Corp 8100 Schoolcraft Ave
Detroit 38 Mich
National Broach & Machine Co., 5600 St.
Jean Ave., Detroit 13, Mich. "Red Ring."
(Gear)
Norton Co 1 New Bond St Worcester 6 Mass
"Crank-O-Lap" (Crankshaft; "Hyprolap"
camshaft cylindrical and flat)
Oliver Instrument Co 1406 E Maumee St
Adrian Mich
Red Ring—See National Broach & Machine
Co.

Co.
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Size Control Co., Div. American Gage & Machine Co., 2500 Washington Bivd., Chicago 12, III. (Centerless.)
Spiralap—See Diesel Control Corp

Shirainp—See Diesel Control Corp.
Taft-Peirce Mfg Co 22 Mechanic Ave Woonscoket R 1
Wickman Mfg Co 16325 Capitol Ave Oak
Park Detroit 37 Mich "Wickman-Neven"
(Carbide)

MACHINES, LEAD BURNING-See Burners.

MACHINES, Magnetic Inspection (For Defects)

Magnaflux Corp 7300 W Lawrence Ave Chicago 31 111

MACHINES, Marking (For Metal)

Acromark Co., 9-15 Morrell St., Elizabeth 4, Cunningham Co M E 1025 Chateau St Pitts-

Cunningham Co M E 1929 Unateau St Fitte-burgh 23 Pa Gorton Machine Co., George, 1131 W, 13th St., Racine, Wis. Hi-Puty—See Geo. T. Schmidt, Inc. Hiorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass Vontreach Com. Hickory St Defiance Ohlo

Lectroetch Corp Hickory St Defiance Ohio Markem Machine Co 150 Congress St Keene N H Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohlo

land 7 Ohlo
Matthews & Co., Jas. H., 3942 Forbes St.,
Pittchurch 13 Pn
New Method Steel Stamps Inc 149 Jos Campau Ave Detroit 7 Mich
Pannier Corp., 207 Sandusky St., Pittsburgh

12 Pa See H. P. Preis Engraving Machine

Panto—See H. C., Co., H. P. 647
Co., Preis Engraving Machine Co., H. P. 647
Hishway No 21 Hillside N J "Panto"
Schmidt, Inc., Geo. T., 4100 Ravenswood
Ave Chicago 13 III "HI-Duty"
Sunerior Seal & Stamp Co 1401 Vermont Ave
Detroit 16 Mich

MACHINES, Marking (For Plastics)

Acromark Co 9 Morrell St Elizabeth 4 N J Markem Machine Co 150 Congress St Keene N H

Preis Engraving Machine Co., H. P. 647 Highway No 22 Hillside N J "Panto"

MACHINES, Mechanical Finishing and De-Burring

Almco Queen Products Inc 901 Marshall St Albert Lea Minn "Almco Supersheen" Gravi-i-Flo Corp 400 Norwood Ave Sturgis Mich

Mecha Mich cha-Finish Corp 303 W South St Sturgis Mich "Mechanatic" Ransohoff Inc N Fifth at Ford Blvd Ham-

filton O Roto-Finish Co 2700 Milham Rd Kalamazoo Mich

Barnes Drill Co 826 Chestnut St Rockford III
"Barnesdril"
Cincinnati Grinders Inc 4701 Marburg Ave
(Oakley) Cincinnati 9 Ohlo

Consolidated Machine Co 4701 Marburg Ave

Consolidated Machine Tool Div Programment MACHINES, Milling (Automatic)
Cincinnati Milling Machine Co 4701 Marburg
Ave Cincinnati 9 Ohlo "HyPowermatic"
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Newton"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Espen-Lucas Machine Works, Front St. &
Girard Ave., Philadelphis 23, Pa.
Fitchburg Engrg Corp Cleghorn St Fitchburg
Mass

Fitche Mass HyPowermatic-See Cincinnati Milling Machine Co

Kent-Owens Machine Co., 958 Wall St., To-

Kent-Owens Machine Co., 958 Wall BL., 10ledo 10, Ohio.
Mill-Matic—See Producto Machine Co.
Motch & Merryweather Mchy Co 715 Penton
Bldg Cleveland 13 Ohio
New Britain-Gridley Machine Div., New
Britain Machine Co., South St., New
Britain, Conn.
Newton—See Consolidated Machine Tool Div
Onsrud Machine Works Inc Machine Tool
Div 7720 N Lehigh Ave Niles Ill (Nonferrous)

ferrous)
Producto Machine Co., 990 Housatonic Ave.,
Bridgeport 1, Conn. "Producto," "MillMatic."
Rotex Punch Co 2350 Alvardo St San Leandro

Rotex Punch Co 2350 Alvardo St San Leandro Califf
Roto-Matic—See Davis & Thompson Co
Snyder Tool & Engineering Co., 2400 E. Lafayette Ave., Detroit 7, Mich.
Sundstrand Machine Tool Co., 2521 11th St.,
Rockford, III.
U S-Burke Machine Tool Div Cincinnati
Mfg Corp Brotherton Rd Cincinnati 27
Ohio (Semi-automatic)

MACHINES, Milling (Bench)

Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif Burke—See U. S.-Burke Machine Tool Div Rotex Punch Co 2350 Alvardo St San

Leandro Calif

. S.-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke"

MICROHONING MACHINES · FIXTURES TOOLS · ABRASIVES

for CYLINDRICAL OR FLAT SURFACES ANY TYPE, ANY SIZE

High Production, Semi Production Service

Microhoning = Stock Removal + Geometry +Size Control + Surface Finish

MICROMATIC HONE CORP

8100 SCHOOLCRAFT, DETROIT 38, MICHIGAN Circle 242 on Inquiry Card for more data MACHINES, Milling (Continuous)

Consolidated Machine Tool Div Farrel-Bir-mingham Co 565 Blossom Rd Rochester 10 N Y "Newton" Davis & Thompson Co 4460 N 124th St Mil-waukee 18 Wis "Roto-Matic"

aukee 18 Wis "Roto-Matic" en-Lucas Machine Works, Front St. & frard Ave., Philadelphia 23. Pa vton—See Consolidated Machine Tool Div ow Machine Co 3500 Foley Ave Detroit 27

Mich Rigidmil—See Sundstrand Machine Tool Co Roto-Matic—See Davis & Thompson Co Sundstrand Machine Tool Co 2531 11th St Rockford Ill "Rigidmil" (Circular)

MACHINES, Milling (Cylinder Head)

Storm-Vulcan Inc 225 Burbank St Dallas 19

MACHINES, Milling (Duplex)

Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio Consolidated Machine Tool Div Farrel-Bir-mingham Co 565 Blossom Rd Rochester 10 N Y "Newton" Espen-Lucas Machine Works, Front St. & Girard Ave., Philadelphia 23, Pa. Frew Machine Co., 125 E. Luray St., Phila-delphia 20, Pa.

Frew Machine Co., 125 E. Luray St., Finiadelphia 20, Pa.
Motch & Merryweather Mchy Co 715 Penton
Bidg Cleveland 13 Ohlo
Newton—See Consolidated Machine Tool Div
Rigidmil—See Sundstrand Machine Tool Co
Sundstrand Machine Tool Co, 2531 11th St.,
Rockford, Ill. "Rigidmil."

MACHINES, Milling (Hand)

Burke—See U S-Burke Machine Tool Co Frew Machine Co., 125 E. Luray St., Phila-delphia 20, Pa. Kent-Owens Machine Co., 958 Wall St., Toledo 10, Ohio. Rouse & Co., H. B., 2214 N. Wayne Ave., Chicago 14 Ill U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke" & "U, S."

MACHINES, Milling (Horizontal) (See also Machines, Boring, Drilling and Milling [Horizontal])

and Milling [Horizontal])

Benchmaster Mfg Co 1835 W Rosecrans Ave
Gardena Calif

Brown & Sharpe
St., Providence, R. I.
Cincinnati Milling Machine Co 4701 Marburg
Ave Cincinnati 9 Ohlo "Dial Type"
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Newton"
Crowningshield Inc 71 Country Club Greenfield Mass (Hand toolroom power feed and
air)

air)
Davis & Thompson Co 4460 N 124th St Mil-waukee 10 Wis "Roto-Matic"
Dial Type—See Cincinnati Milling Machine

Dial Type—see Calculation of Co
Diamond Machine Tool Co 5111 CoffmanPico Rd Pico Calif
Espen-Lucas Machine Works, Front St. &
Girard Ave., Philadelphia 23, Pa.
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Gorton Machine Co., George, 1131 W. 13th

Durg Mass
Gorton Machine Co., George, 1131 W. 13th
St., Racine, Wis.
Greaves Machine Tool Div of J A Fay &
Egan Co Eastern Ave & Hazen St Cincinnati 2 Ohio (Plain and universal)
Index Machine & Tool Co., 543 N. Mechanie
St., Jackson, Mich.
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"
Kempsmith Machine Co 1819 S 71st St
West Allis 14 Wis "Maximiller" & "Kempsmith Master-Mil" (Plain and universal)
Maximiller—See Kempsmith Machine Co.
Morton Mfs. Co., Broadway & Hoyt St.,
Musikegon Heights, Mich.
Newton—See Consolidated Machine Tool
Div

Newton—see Consolidated statemer Your Div Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn Rehnberg-Jacobson Mfg. Co., 2135 Kishwaukee St., Rockford, Ill. Rigidmil—See Sundstrand Machine Tool Co Roto-Matic—See Davis & Thompson Co Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill. Sundstrand Machine Tool Co., 2531 11th St., Rockford, Ill. "Rigidmil." Van Norman Machine Co 3640 Main St Springfield 7 Mass Wardwell Mfg Corp 3805 Ridge Ave Cleveland 3 Ohio

MACHINES, Milling (Planer Type)

Cincinnati Milling Machine Co., Marburg Ave., Cincinnati 9, Ohio. Consolidated Machine Tool Div Farrel-Bir-mingham Co 565 Blossom Rd Rochester 10

N 1 "Newton"

D& T—See Davis & Thompson Co.

Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic" "D & T"

Fitchburg Engrg Corp Cleghorn St Fitch-

Flitchburg Engrg Corp Cleghorn St Fitchburg Mass

G & L and Hypro Div Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis "G & L" & "Hypro"

Gray Co., G. A., 3611 Woodburn Ave., Cincinnati, Ohio.

Hypro-See G & L and Hypro Div Newton—See Consolidated Machine Tool Div Roto-Matic—See Davis & Thompson Co. Simplex Machine Tool Corp 4548 W Mitchell St Milwaukee 48 Wis

MACHINES, Milling (Rotary)

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Newton" (Continuous)
D & T-See Davis & Thompson Co.
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "D & T" "Roto-Matic"
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"

burg Mass
Kearney & Trecker Corp 6800 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"
Newton-See Consolidated Machine Tool Div
Roto-Matic—See Davis & Thompson Co.

MACHINES, Milling (Spline)

olidated Machine Tool Div Farrel-Bir-ngham Co 565 Blossom Rd Rochester 10 mingham Newton N Y "Newton"
Frew Machine Co., 125 E. Luray St., Philadelphia 20, Pa.
Lees-Bradner Co., Elmwood Ave. & W.
121st St., Cleveland 11, Ohio.
Newton—See Consolidated Machine Tool Div

MACHINES, Milling (Thread)

HW-See Hanson-Whitney Co
Hall Planetary Co of Philadelphia 5561 Baynton St Philadelphia 44 Pa (Planetary)
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW"
Lees-Bradner Co., Elmwood Ave. & W. 121st
St., Cleveland 11, Ohlo
Plan-O-Mill Corp 2105 National Bank Bldg
Detroit 26 Mich (Planetary)
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn

Pratt & Whitney Co Charter Car Bird West Hartford I Conn Snyder Tool & Engre, Co., 3400 E. Lafayette Ave., Detroit 7, Mich Waltham Machine Works Inc 296 Newton St Waitham Mass Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

MACHINES, Milling (Universal)

Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio "Dial Type" Consolidated Machine Tool Div Farrel-Bir-mingham Co 555 Blossom Rd Rochester 10 N Y "Newton"

Dial Type-See Cincinnati Milling Machine Gorton Machine Co., George, 1131 W. 13th St., Racine, Wis. Hardinge Bros Inc 1418 College Ave Elmira N Y

N Y
Kearney & Trecker Corp 6860 W National
Ave Milwaukee 14 Wis "Kearney &
Trecker-Milwaukee"
Newton-See Consolidated Machine Tool Div
US-Burke Machine Tool Div Cincinnati Mfg
Cc" Brotherton Rd Cincinnati 27 Ohio
"US"

an Norman Machine Co 3640 Main St MACHINES, Springfield 7 Mass (Automatic

MACHINES, Milling (Vertical)

Adams Engrg Co 31711 Solon Rd Solon Ohio Atlas Press Co 1842 N Pitcher St Kalamazoo 13D Mich "Atlas" "Clausing" Barnes Co W & John 301 S Water St

Barnes Co W F & John 301 S Water St Rockford III
Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif
Brown & Sharpe Mfg. Co., 225 Promenade St. Providence. R. I.
Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio "Dial Type" "Hydro-tel" "Toolmaster" Cincinnati Planer Co., 3120 Forrer St. (Oakley). Cincinnati, Ohio.
Clausing—See Atlas Press Co

Consolidated Machine Tool Div Farrel-Bir-mingham Co 565 Blossom Rd Rochester 10 N Y "Newton"

N 1 "Newton"
Crowningshield Inc 71 Country Club Greenfield Mass (Hand toolroom rackfeed, production and air feed)
D & T—See Davis & Thompson Co.
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "D & T" "Roto-Matic"
Dial Type—See Cincinnati Milling Machine

Co Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif Duff Machine Co 31 Wingate St Haverhill

Pico Rd Pico Calif
Duff Machine Co 31 Wingate St Haverhill
Mass
Ecco-See Ekstrom, Carlson & Co.
Ekstrom Carlson & Co 1400 Railroad Ave
Rockford III "Ecco"
Espen-Lucas Machine Works Front St &
Girard Ave Philadelphia 23 Pa
Famco Machine Co 3100 Sheridan Rd Kerosha Wis

Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Gorton Machine Co., George, 1131 W. 13th
St., Racine, Wis.
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Hydro-tel—See Cincinnati Milling Machine

Co. Index Machine & Tool Co., 543 N. Mechanic St., Jackson, Mich. Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"

Trecker-Milwaukee"
Kent-Owens Machine Co., \$58 Wall St.,
Toledo 10, Ohio.
Knight Machinery Co., W. B., \$920 W. Pine
St., St. Louis & Mo.
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Newton—See Consolidated Machine Tool Div
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Reed-Prentice Corp 677 Cambridge St Worcester 4 Mass

Cester 4 Mass Rigidmil-See Sundstrand Machine Tool Co. Roto-Matic-See Davis & Thompson Co. Snyder Tool & Engrg. Co., 2400 E. Lafayette Ave., Detroit 7, Mich.

outh Bend Lathe Works 425 E Madison St South Bend 22 Ind

Sundstrand Machine Tool Co., 2531 11th St., Rockford, Ill. "Rigidmil." Toolmaster-See Cincinnati Milling Machine

U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "US"

MACHINES, Milling and Centering (Automatic)

Centrmil-See Sundstrand Machine Tool Co Davis & Thompson Co 4460 N 124th St Mil-waukee 18 Wis Jones & Lamson Machine Co 523 Clinton St Springfield Vt

St Springled Vt Motch & Merryweather Mchy Co 715 Penton Bldg Cleveland 13 Ohio Sundstrand Machine Tool Co 2531 11th St Rockford III "Centrmil"

MACHINES, Molding, Metal (Foundry)

International Molding, Metal (Foundry)
International Molding Machine Co., 1201 N.
Barnsdale Ave., La Grange Park, Ill.
Milwaukee Foundry Equipment Div of Spo
Inc 3238 W Pierce St Milwaukee Wis
Nicholls Co., Wm. H., Richmond Hill 18.
L. I., N. Y.
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.,
Cleveland 14, Ohio.
Tabor Mfg Co Div of Turbo Machine Co 840
W Main St Lansdale Pa

MACHINES, MOLDING (PLASTIC) — See Presses, Plastic Molding

Numbering, for Metal (Automatic)

Acromark Co., 9 Morrell St., Elizabeth 4.

Hi-Duty—See Geo. T. Schmidt, Inc. Numberall Stamp & Tool Co Huguenot Park S I 12 N Y Schmidt, Inc., Oeo. T., 4100 Ravenswood Ave., Chicago 13, Ill. "Hi-Duty."

Fischer Machine Co., 310 N. 11th St., Phila-

delphia 7, Pa.

Storm-Vulcan Inc 2225 Burbank St Dallas
19 Tex (Connecting red, hand operated)

Wicaco Machine Corp 4801 Stenton Ave
Philadelphia 44 Pa

MACHINES, Painting

(See also Sprayers, Paint, Varnish and Lacquer)

Binks Mfg Co 3114 Carroll Ave Chicago 12 Ill (Spray)

Ill (Spray)
Cincinnati Cleaning & Finishing Machinery
Co 317 Hecla St Ironton Ohio
Conforming Matrix Co Toledo Factories Bldg
Toledo 2 Ohio (Spray)
De Vilbiss Metal Fabricators Co 17900 Ryan
Rd Detroit 12 Mich (Spray)
Ransburg Electro-Coating Corp., 1234 Barth
Ave., Indianapolis 7, Ind. (Electrostatic
spray and electrostatic detearing units;
licensors.)

MACHINES, Pantograph

Gorton Machine Co George 1131 W 13th St Racine Wis Panto-See Preis Engraving Machine Co Preis Engraving Machine Co H P 647 High-way 22 Hillside N J "Panto"

MACHINES, Pickling

Circo Equipment Co 120 Central Ave Clark (Rahway) N J Mahon R C 6565 E 8 Mile Rd Detroit 34 Mich

Meaker Co 1629 S 55th Ave Chicago 50 Mesta Machine Co., Box 1466, Pittsburgh 30,

Pa. Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J Ransohoff Inc N 5th St at Ford Blvd Hamil-

ton Ohlo Stevens Inc Frederic B 1800 18th St Detroit

. S. Galvanizing & Plating Equipme Corp., 27-41 Heyward St., Brooklyn, N.

MACHINES, Piston Boring (Automatic) Ex-Cello Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"

MACHINES, Piston Center Drilling and Facing

Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.

MACHINES, Piston Making

a Salle Tool Co 3840 E Outer Dr Detroit 34 Mich (Automated)

MACHINES, PISTON PIN BUSHING BORING
—See Machines, Boring (Piston Pin Bushing) MACHINES, PISTON RING GRINDING-See Machines, Grinding (Piston Ring)

MACHINES, Piston Turning and Grind-

Cedar Rapids Engineering Co 902 17th St NE Cedar Rapids Iowa "Kwik-Way" Cincinnati Grinders Inc 4701 Marburg Ave Cincinnati 9 Ohio (Grinding)

Kwik-Way-See Cedar Rapids Engineering

dis Tool Co Sixth St Waynesboro Pa Landis Tool Co Sixth St Waynesser (Grinding) Norton Co 1 New Bond St Worcester 6 Mass Storm-Vulcan Inc 2225 Burbank St Dallas

Van Norman Automotive Equip Co 3640 Main St Springfield 7 Mass

MACHINES, Plating

(Including machines, generators, tanks and supplies)

Allied Research Products Inc 4004 E Monu-ment St Baltimore 5 Md "Wagner" (Also

ment St Bantinger | rectifiers and tanks) 'hromaster—See Ward Leonard Electric Co

Chromaster—See Ward Leonard Electric Co Columbia Electric Mfg. Co., 4519 Hamilton Ave., Cleveland 14, Ohio. (Generators.) Crown Rheostat & Supply Co 1965 Pratt Blvd. Elk Grove Village Ill G-E—See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-F." (Generators and rectifiers)

River Rd Schenectady 5 N Y "G-F". (Generators and rectifiers)
Hanson-Van Winkle-Munning Co Matawan
N J "H-VW-M" (Generators rectifiers
barrels and tanks)
Lifetime—See Niles Steel Tank Co.
Meaker Co., 1629 S. 55th Ave., Chicago 50,

Niles Steel Tank Co., Niles, Mich. "Life-

time." (Tanks.)
Phillips Mfg Co 3475 Touhy Ave Chicago
45 Ill (Tanks)
Ransohoff Inc N 5th St at Ford Blvd Hamil-

Stevens inc Frederic B 1800 18th St Detroit 16 Mich (Automatic: also plating tanks) Udylite Corp., 1651 E. Grand Bivd., Detroit 11, Mich.

U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y. (Electro.) Wagner—See Allied Research Products Inc Ward Leonard Electric Co. 27 South St Mt Vernon N Y "Chromaster" (Chrome) Westinghouse Electric Corp. 3 Gateway Cen-ter Pittsburgh 30 Pa (Generators)

MACHINES. POWDERED METAL - See Presses, Powdered Metal

MACHINES. Pressure & Vacuum Testing

(For detecting leaks in castings, assemblies, oil pumps, fuel tanks, etc. Barnes Co W F & John 301 S Water St Rockford III

Consolidated Electrodynamics

ROCKIOTH III
CEC—See Consolidated Electrodynamics
COTP
Consolidated Electrodynamics Corp 300 N
Sierra Madre Villa Pasadena Calif "CEC"
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 III (Vacuum)
Moore Products Co H & Lycoming Sts Philadelphia 24 Pa
NRC Equipment Corp 160 Charlemont St
Newton 61 Mass
RCA Arlin—See RCA Corp of America
Radio Corp of America Detroit Industrial
Products 13541 Auburn Ave Detroit 23
Mich "RCA Arlin"
Whittinston Pump & Engrg Corp 1126 Prospect St Indianapolis 3 Ind

MACHINES, Processing (Sheet Metal) McKay Machine Co 825 W Federal St Youngs-town Ohio

MACHINES, Profiling

Baker Bros Inc P O Box 101 Sta F Toledo
10 Ohto (Grinding)
Boyar-Schultz Corp 2000 S 25th Ave Broadview III (Grinding)
Cincinnati Milling Machine Co 4701 Marbura
Ave Cincinnati 9 Ohto "Hydro-Tel" (Milling); "Projecto-Form" (Grinding)
Douglas Tool Co 2300 E Nine Mile Rd Hazee
Park Mich (Milling)
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich "XLO" (Grinding, milling and
polishing)

32 Mich "XLO" (Grinding, milling and pollshing)
Frew Machine Co., 125 E. Luray St., Phila-delphia 20, Pa.
Gorton Machine Co., George, 1131 W. 13th St., Racine, Wis Hydro-Tei-See Cincinnati Milling Machine

Hydro-Tel—See Cincinnati Milling Machine
Co
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohlo "Master" (Grinding)
Master—See Kindt-Collins Co
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Onsrud Machine Works Inc Machine Tool
Div 7720 N Lehigh Ave Niles Ill
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn (Milling)
Projecto-Form—See Cincinnati Milling Ma
chine Co
Rice Pump & Machine Co 600 Park St Belgium Wis "Rice Milwaukee"
Sheffield Corp 721 Springfield St Dayton 1
Ohio (Grinding and milling)
Wade Tool Co 49 River St Waltham 54 Mass
(Milling)

(Milling)

Wickes Machine Tool Div Wickes Corp 515

N Washington Ave Saginaw Mich

N Washington Ave Sagi XLO-See Ex-Cell-O Corp

MACHINES, Punching

Allen Industries Alva Clinton Mo (Bench type)
Bath Co Cyril 22280 Aurora Rd Solon Ohic Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif Riss Co E W 1875 Raff St S W Canton Ohio CP—See Chicago Pneumatic Tool Co Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP"
Clearing Machine Corp 6499 W 65th St Chicago 35 Ill
Cleveland Punch & Shear Works Co., 2917 St. Clair Ave., Cleveland, Ohio.
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Di-Acro—See O'Neil-Irwin Mfg. Co.
Excelsior Tool & Machine Co., 129 E. Commerce St., Bridge Ave., East St. Louis, Ill.
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Hannifin Co 615-D S Wolf Rd Des Plaines Ill "Hy-Power" (Hydraulic)
Heavy Machine Div., Cleveland Crane & Engineering Co., 5267 E, 289 St., Wickliffe, Ohio, "Steelweld." Allen Industries Alva Clinton Mo (Bench

Henry & Wright Div of Emhart Mfg Co 760 Windsor St Hartford 1 Conn Hy-Power—See Hannifin Co Kenco Mfg Co 521 Telegraph Rd Los An-geles 22 Calif Kling Bros Engrg Wks 1320 N Kostner Ave Chicago 51 Ill

Chicago of the Chicago (24) Chicago (12, III. (Hand operated.)

Minster Machine Co 240 W 5th St Minster Ohio

Ohio
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
O'Neil-irwin Mfg. Co., Lake City, Minn.
"Di-Acro."
P.P.P.—See Perkins Machine Co.
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexto."
Perkins Machine Co., 12 Perkins Ave., Warren, Mass. "P.P.P.
Pexto—See Peck, Stow & Wilcox Co.
Richards Co J A 903 N Pitcher St Kalamazoo Mich
Rotex Punch Co 2250 Alvardo St San Leandro
Calif

Calif
Rousselle—See Service Machine Co.
Service Machine Co 2310 W 78th St Chicago
20 Ill "Rousselle"
Steelweld—See Heavy Machine Div., Cleveland Crane & Engineering Co.
Taylor-Winfield Corp 1052 Mahoning Ave
NW Warren Ohio

V & O Press Co., Union Turnpike, Hudson,

N. Y. Verson Allsteel Press Co., 93rd St. & Ken-wood Ave., Chicago, Ill. Wales-Strippit Co Akron N Y Walsh Press & Die Div of American Gage & Machinery Co 4709 W Kinzie St Chicago

44 Ill Whitney Metal Tool Co., 190 Forbes St., Rockford, Ill. "Whitney-Jensen." Wiedemann Machine Co Gulph Rd King of Prussia Pa

Zeh & Hahnemann Co., 182 Vanderpool St. Newark 5, N. J.

MACHINES, Quenching

Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 III EF—See Electric Furnace Co Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"

Ohio "EF" "Elfurno". Elfurno—See Electric Furnace Co Gleason Works 1000 University Ave Roch-ester 3 N Y Simplicity Engrg Co Durand 1 Mich Urschel Engrg Co Troupe St & Urschel Drive Bowling Green Ohio

MACHINES, Riveting (Metal)

(For brake !ining riveters-see Machines, Brake Relining)

(For brake lining riveters—see Machines, Brake Reiling)
Airflex—See Lemert Engrg Co
Boyer—See Chicago Pneumatic Tool Co.
Chicago Pneumatic Tool Co., 6 E. 44th St.,
New York, N v "Rover." (Portable pneumatic; also hydraulic)
Chicago Rivet & Machine Co 9603 W Jackson Blvd Bellwood III (Chicago Suburb)
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 III
Erco—See Nuclear Products Erco Div of ACF Industries Inc
Flexible Power—See General Mfg Co
General Mfg Co 6422 Farnsworth Ave Detroit
I Mich "Flexible Power"
Grant Mfg. & Machine Co., 99 Silliman Ave..
Bridgeport & Conn
Bridgeport & Conn
Hanna Engineering Works 1765 Elston Ave
Chicago 22 II (Pneumatic)
Hannifn Corp 615-D S Wolf Rd Des Plaines
III "Hy-Power" (Hydraulic)
High Speed Hammer Co 313 Norton St
Rochester 21 N Y
Hill Machine Co 1301 Eddy Ave Rockford III
(Pneumatic)
Hydraulic Press Mfg. Co., Mount Gilead,
Ohto. "H-P-M"
Hy-Power—See Hannifin Corp
Ingersoll-Rand Co 11 Broadway New York
4 N Y
Lemert Engrg Co 201 E Jefferson St Plymouth Ind "Airflex"

Ingersoil-Rand Co 11 Broadway New York
4 N Y
Lemert Engrg Co 201 E Jefferson St Plymouth Ind "Airflex"
Lempco Products. inc., 5727 Dunham Rd.,
Bedford, Ohio.
Milford Rivet & Machine Co Post Rd Milford Conn
National Rivet & Mac Co., Waudden, Wie,
Nuclear Products-Erco Div of ACF Industries Inc Riverdale Md "Erco"
Nugier Co F A 1748 Berkeley St Santa
Monica Calif (Ring gear)
PB—See Power Brake Parts Mfg Co
Ave Chicago 8 Ill "PB" (Pneumatic)

MACHINES, Riveting (Metal)-continued

Rivitor—See Tomkins-Johnson Co. Thomson Mfg Co Judson L Sawyer Rd Wal-

homson Mfg Co Judson L Sawyer Rd Wal-tham Mass hor Power Tool Co 175 State St Aurora III (Portable pneumatic)

Tomkins-Johnson Co., 617 N. Mechanic St., Jackson Mich "Rivitor" Tubular Rivet & Stud Co Westton Ave Wollaston 70 Mass

MACHINES, Rolling (Strip)

Kane & Roach, Niagara & Shonnard Sts., Syracuse, N Y. Syracuse, N Y. Waterbury Farrel Fdry & Machine Co 453 Bank St Waterbury 20 Conn

MACHINES, Routing

Richards Co J A 903 N Pitcher St Kalamazoo Mich "Multi Form" (For magnesium and aluminum match plates) Sundstrand Machine Tool Co 2531 11th St Rockford III

MACHINES, Rust Proofing

Drying Systems Co 1810½ Foster Ave Chi-cago 40 III "Dry-Sys" Dry-Sys-See Drying Systems Co Mahon Co R C 6565 E 8 Mile Rd Detroit 34 Ransohoff Inc N 5th St at Ford Blvd Hamil-

MACHINES, Sanding (Metal)

Bolce-Crane Co., 930 W. Central Ave.,
Toledo 6, Ohio.
Kindt-Collins Co 12851 Elmwood Ave Cleveland 11 "Master"
Master—See Kindt-Collins Co
Production Machine Co., 311 Wells St.,
Greenfield, Mass.

MACHINES, SANDING (PORTABLE)—See Sanders, Portable

MACHINES, Sanding (Wood)

Atlas Press Co 1842 N Pitcher St Kalamasoo Mich
Beach Mfg. Co., Mill & High Sts., Montrose,
Pa. "Heath."
Bolce-Crane Co., 930 W. Central Ave.,
Toledo 6, Ohio
Kindt-Collins Co., 12651 Elmwood Ave.,
Cleveland 11, Ohio, "Master." (Spindle.)
Master—See Kindt-Collins Co.
Porter-Cable Machine Co., 1800 Salina St.,
Syracuse 6, N.Y.
Production Machine Co., Greenfield, Mass.
Wysong & Miles Co., 625 Fulton St., Greensboro, N. C.

MACHINES, Sawing (Band)

Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Colladay MacLine Works, 125 E. Luray St., Philadelphia 20, Pa
Delta-Rockwell—See Rockwell Mfg Co Delta

Power Tool Div Do All Co 254 N Laurel Ave Des Plaines Ill "Do All Zephyr" (Contour) Famco Machine Co 3100 Sheridan Rd Keno-

Famco Machine Co 3100 Sheridan Rd Kenosha Wis
Grob Inc Crafton Wis
Johnson Mfg Co 1013 Barnes St Albion Mich
Jones Superior Machine Co 2320 W Grand
Ave Chicago 12 III "Superior"
Laidiaw, Inc., Wm., 7 Greenwich St., Belmont, N. Y.
Milford-See Henry S Thompson & Son Co
Moak Machine & Tool Co., 2547 Connor St.,
Port Huron, Mich.
Porter Machinery Co., C. O., 666 Front Ave.,
N. W., Grand Rapids, Mich.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "DeltaRockwell"

Rockwell

Rockwell"
Superior—See Jones Superior Machine Co
Tannewitz Works 315 Front Ave N W Grand
Rapids 2 Mich
Thompson & Son Henry S 277 Chapel St
New Haven & Conn "Milford"
Walker-Turner Div Rockwell Mfg Co 400 N
Lexington Ave Pittsburgh 8 Pa
Wallace & Co J D 800 N Detroit St Warsaw
Ind

Ind Ind Mfg. Corp., E. on Highway M-60, Three Rivers, Mich. Yates-American Machine Co., Beloit, Wis.

MACHINES, Sawing (Circular)

Beach Mig. Co., Mill & High Sts., Montrose, e-Crane Co., 930 W. Central Ave., Toledo 6. Ohio.

Deka-Rockwell—See Rockwell Mfg Co

De Walt Inc Fountain Ave Lancaster Pa
Electromatic—See J A Richards Co
Espen-Lucas Machine Works, Front St. &
Girard Ave., Philadelphia 23, Pa.
Greenlee Bros. & Co., 2100 12th St., Rockford, III.
Hermance Machine Co., 178 Campbell St.,
Willismsport 19, Pa.
Jones Superior Machine Co 2820 W Grand
Ave Chicago 12 Ill "Superior"
Kling Bros Engrg Works 1320 N Kostner
Ave Chicago 51 Ill
Loma Machine Mfg Co 114 E 32nd St New
York 16 N Y
Moak Machine & Tool Co., 2547 Connor St.,

York 16 N Y

Moak Machine & Tool Co., 2547 Connor St.,
Port Huron, Mich. Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich. Motch & Merryweather Mchy Co 715 Pentor Bldg Cleveland 13 Ohlo Power & Co., L., 2810 Oakford St., Philadel phia 46, Pa. Richards Co J. A 903 N Pitcher St Kalama zoo Mich "Electromatic" Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-

Rockwell'

ROCKWEII Superior—See Jones Superior Machine Co Tannewitz Works 315 Front Ave N W Grand Rapids 2 Mich Ty-Sa-Man Mchry Co 1000 White Ave Knoxville 1 Tenn Yates-American Machine Co., Beloit, Wis.

MACHINES, Sawing (Power Hack)

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa. Covel Mg. Co., Graham Ave., Benton Har-bor, Mich. "Excel." Excel.—See Covel Mfg. Co. Maquoketa Co Clinton Iowa "Sawmore"
Peerless Machine Co., 1600 Junction Ave.,
Racine, Wis. Peerless Machine Co., 1600 Junction Ave., Racine Wisa. Racine Hydraulics & Machinery Inc 2006 Albert St Racine Wisa. Albert St Racine Wisa. Albert St Louis Tool Co. Sales Service Machine Tool Co. 2363 University Ave St Paul 14 Minn "Keller" Sawmore—See Maquoketa Co.

MACHINES, Sawing (Swing)

Colladay Machine Works, 125 E. Luray St., Philadelphia 20, Pa. De Wait inc Fountain Ave Lancaster Pa Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich.

MACHINES, Sawing and Filing

Bolce-Crane Co 930 W Central Ave Toledo 6 Ohio All Co., 254 N. Laurel Ave., Des Plaines, Il (Contour) liver Instrument Co 1406 E Maumee St Adrian Mich orks 315 Front Ave N W Grand

MACHINES, Screw (Automatic)

Acme-Gridley—See National Acme Co. Brown & Sharpe Mfg Co 235 Promenade St Providence R I Cleveland Automatic Machine Co 4932 Beech St Norwood Cincinnati 12 Ohio Cone Automatic Machine Co., Windsor, Vt. "Conomatic See Cone Automatic Machine Co. Davenport Machine Tool Co., 167 Ames St., Rochaster 11 N Y Detroit Screwmaster—See Gear Grinding
Machine Co Machine Co
Gear Grinding Machine Co 3901 Christoper
Ave Detroit 1 Mich "Detroit Screwmaster"
Gorton Machine Co., George, 1131 W. 13th St.,
Racine, Wis.
Greenlee Bros & Co 2100 12th St Rockford III
National Acme Co., 170 E. 131st St., Cleveland 3, Ohio. "Acme-Gridley."
MACHINES, Soldering
Acoustica Associates Inc Sho
Landing L I N Y (Ultrasor
Marchine Co New Britain-Gridley Machine Div New Britain Conn
Porter-McLeod Machine Tool Co Prospect St
Hatfield Mass
Warner & Swasey Co., 5701 Carnegie Ave.,
Cleveland 3, Ohio.

MACHINES, Screw (Hand or Plain)

Brown & Sharpe Mig. Co., 235 Promenade
St., Providence, R. I. (Hand.)
Globe Heat-Seal Inc. Co 3380 Robertson Blvd
Los Angeles 34 Calif
Hardinge Bros. Inc., 1418 College Ave., Elmira. N. Y. (Precision.)
Monarch Machine Tool Co., 402 Oak St.,
Sidney, Ohlo. (Hand.)
Rivet Lathe & Grinder, Inc., 2f Riverview
Rd Righton, Poston 35 Mass
Wade Tool Co 18 River St Waltham 54 Mass
Tishken Products Co 13000 W Wade Tool Co 49 River St Waltham 54 Mass

MACHINES, Seaming (Metal)

Bliss Co E W 1375 Raff Rd S W Canton Obio Niagara Machine & Tool Works, 683 North-land Ave, Buffalo 11, N. Y. Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto." Pexto—See Peck, Stow & Wilcox Co.

MACHINES, Sewing (Industrial)

Randall Co., 5000 Spring Grove Ave., Cincinnati, Ohio.
Union Special Machine Co 402 N Franklin St Chicago 10 III
Willcox & Gibbs Sewing Machine Co., 214 W.
39th St., New York 18, N. Y.

MACHINES, Sheet Metal Working (For drawing, forming, cutting and punching)

punching)

American Pullmax Co 2455 N Sheffield Ave
Chicago 14 Ili "Pullmax" (Importers)
Bath Co Cyril \$2280 Aurora Rd Solon Ohio
Cincinnati Milling Machine Co 4701 Marburg
Ave Cincinnati 9 Ohio "Hydroform"
Di-Acro-See O'Neil-Irwin Mfg Co.
Erco-See Nuclear Products—Erco Div
Ex-Cell-O Corp 1200 Oakman Blvd Detroit 22
Mich. Hendley & Whittemore Co Box 359 Beloit Hydroform—See Cincinnati Milling Machine Co Kane & Roach Inc Niagara & Shonnard St Syracuse 4 N Y Libert Machine Co 324 N Roosevelt St Green Libert Machine Co \$24 N Roosevelt St Green Bay Wis

McKay Machine Co \$25 W Federal St Youngstown Ohio
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Nuclear Froducts-Erro Div of ACF Industries Inc Riverdale Md "Erco"
O'Neil-Irwin Mfg. Co., Lake City, Minn.
"Di-Acro." "Di-Acro."
Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
Pexto—See Peck, Stow & Wilcox Co.
Pexto—See Peck, Stow & Wilcox Co.
Pullmax—See American Pullmax Co.
Wales-Strippit Co Akron N Y
Wean Equinment Corp 22828 Lakeland Bivd
Euclid Cleveland 17 Ohio (Combination slitting and shearing)
Wysong & Miles Co., 625 Fulton St., Greens-boro, N. C.

MACHINES, Shot Peening

Pangborn Corp 200 Pangborn Bivd Hagers-town Md "Rotoblast" Rotoblast—See Pangborn Corp Wheelabrator Corp 402 Byrkit St Misha-waka Ind "Wheelapeen" & "Wheela-brator" Wheelapeen-See Wheelabrator Corp

MACHINES, Slotting

MACHINES, Slotting
Betts—See Consolidated Machine Tool Div
Consolidated Machine Tool Div Farrel-Birmingham Co 555 Blossom Rd Rochester 10
N Y "Betts"
Danly Machine Specialties Inc 2100 S Laramie
Ave Chicago 5 Ill
Hy-Draulic—See Rockford Machine Tool Co.
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich Morton Mfg Co Broadway & Hoyt St Mus-kegon Heights Mich
Pellow Machine Co, 13500 Foley Ave., De-troit 27, Mich (Nut.)
Rockford Machine Tool Co., 2400 Kiskwau-kee St., Rockford, Ill. "Hy-Draulic."
Superior Machine & Engineering Co., 1930 Ferry Park Detroit, Mich.
Wales-Strippit Co Akron N Y
Waterbury Farrel Foundry & Machine Co
453 Bank St Waterbury 20 Conn (Screw head.)

Acoustica Associates Inc Shore Rd Glenwood Landing L I N Y (Ultrasonic)

Michigan Tool Co 7171 McNichols Rd E De-troit 12 Mich "Roto-Flo"

Brandes Press Co 6408 Euclid Ave Cleve-land 3 Ohio (Coll)
Grotnes Machine Works Inc 5454 W Wolcott Ave Chicago 40 Ill (Roller type)
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y
Mackintosh-Hemphill Div E W Bliss Co 901
Bingham St S S Pittsburgh 3 Pa (Tubing)
Tishken Products Co 13000 W Eight Mile Rd
Detroit 37 Mich

MACHINES, Superfinishing

Gishpit Machine Co 1307 E Washington Ave Madison 10 Wis "Gisholt Superfinisher" Lambert Inc Ansonia Ohio (Licensees) Size Control Co Div American Gage & Ma-chine Co 2500 Washington Blvd Chicago 12

MACHINES, Tacking

Bostitch East Greenwich R I
Duo-Fast—See Eastern Duo-Fast Corp
Eastern Duo-Fast Corp 176 Ave of
Americas N Y 13 N Y "Duo-Fast" (hand automatic) (One

Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (One-hand automatic.) Powasert—See United Shoe Machinery Corp United Shoe Machinery Corp 140 Federal St Boston 7 Mass "Powasert" (One-hand automatic)

MACHINES, Tapping

(See also Tappers, Portable Electric; also Tappers, Portable Pneumatic)

Acme-See Hill Acme Co Acme Machinery w Machine Co 121 S Main St Milford

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St

Covington Ky Baker Bros Inc P O Box 101 Sta F Toledo

Baker Bros Inc P O Box 101 Sta F Tolego 10 Ohlo
Barnes Co W F & John 201 S Water St Rockford III (Horizontal and vertical)
Barnes Drill Co. 826 Chestnut St., Rockford, III. "Barnesdril."
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohlo.
Cincinsati-Bickford Div Giddings & Lewis Machine Tool Co 2220 Forrer St Cincinnati 9 Ohlo "Super-Service"
Cleveland Tapping Machine Co Canton 6
Ohlo

Cleveland Tapping
Ohlo
Footburt—See Foote-Burt Co.
Foote-Burt Co., 13000 St. Clair Ave., Cleveland, Ohlo. "Footburt."
Frew Machine Co., 125 E. Luray St., Philadelphia 20, Pa.
Garvin—See Western Machine Tool Works.
Grant Mig & Machine Co Silliman Ave
Bridgeport 5 Conn
Greenlee Bros. & Co., 2100 12th St., Rockford,
Ill.

Tool Co 2th & Hanover Sts Hamil-

Hamilton Tool Co 9th & Hanover Sts Hamilton O (Sensitive)
Hi-Duty—See Kaufman Mfg. Co.
Hill Acme Co Acme Machinery Div 1201 W
65th St Cleveland 2 Ohio "Acme" (Nut and pipe coupling)
Hole Hog—See Moline Tool Co
Kaufman Mfg. Co., 29th St. & Meadow Lane,
Manitowoc Wis "Hi-Duty"
Moline Tool Co 102 20th St Moline III "Hole
Hog" (Multiple spindle)
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich (Automatic)
Natco—See National Automatic Tool Co.
National Automatic Tool Co., S. Seventh &
N Sts., Richmond, Ind. "Natco."
Procunier Safety Chuck Co., 18 S. Clinton
St., Chicago 6. III.
Producto Machine Co., 2135 Kishwaukee St., Rockford, III.
Rickert-Shafer Co., 613 W. 11th St., Erie
Pa "R.S."
Sibley Machine & Foundry Corp 206 E Tutt
St South Bend 23 Ind
Snow Mfg. Co., 435 Eastern Ave., Bellwood,
III.
Snyder Tool & Engineering Co., 3400 E.

T11

III.
Snyder Tool & Engineering Co., 3400 E.
Lafayette Ave.. Detroit 7, Mich.
Super-Service—See Cincinnati-Bickford Div
Warner & Swasey Co., 5701 Carnegle Ave..
Cleveland 3, Ohio.
Western Machine Tool Works 255 W Ninth
St Holland Mich "Garvin"

MACHINES, Tapping (Nut)

Acme Machinery Div Hill Acme Co 6300 Breakwater Ave Cleveland 2 Ohio National Machinery Co., Tiffin, Ohio. Waterbury Farrel Foundry & Machine Co 453 Bank St Waterbury 20 Conn (Automatic)

MACHINES, TAPPING and DRILLING-See Machines, Drilling & Tapping

MACHINES, Tapping and Threading Cleveland Tapping Machine Co Canton 6 Ohic Warner & Swasey Co., 5701 Carnegie Ave., Cleveland 3, Ohio. MACHINES, Testing (Color)

(For testing fastness to sunlight of auto fabric colors.)

Atlas Electric Devices Co 4114 N Ravens-wood Ave Chicago 13 III Fade-Umeter—See Atlas Electric Devices Co

MACHINES, Testing (Cylinder Head)

Beach Engrg Inc 3950 W 11 Mile Rd Berkley

MACHINES, Testing (Gear)

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I Farrel-Birmingham Co 97 Main St Ansonia Conn General Electric Co., 1 River Rd., Schenec-tady 5, N. Y. "Ultrasonics."

General Electric Co., 1 River Rd., Schenectady 5, N. Y. "Ultrasonica."
Gleason Works, 1000 University Ave., Rochester 3, N. Y.
Illinite—See Illinois Tool Works
Illinois Tool Works 2501 N Keeler Ave Chicago 39 II "Illinite"
Michigan Tool Co., 7171 McNichols Rd., E.,
Detroit 12, Mich. "SineLine."
National Broach & Machine Co., 5600 St
Jean Ave., Detroit 13, Mich. "Red Ring.'
Parkson—See George Scherr Co.
Red Ring—See National Broach & Machine
Co.

Co.
Scherr Co., George, 200 Lafayette St., New
York 12, N. Y. "Parkson."
SineLine—See Michigan Tool Co
Ultrasonica—See General Electric Co.
Vinco Corp 9111 Schaefer Highway Detroit

MACHINES, Testing (Metal)

(Tensile, compression, hardness, flaw, etc.)

(See also Instruments, Metal Testing) B-L-H-See Baldwin-Lima-Hamilton Corp Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa "B-L-H" Barber-Colman Co 1300 Rock St Rockford

Ill (Hand type) olor-Glance-See Steel City Testing Ma-

III (Hand type)
Color-Glance—See Steel City Testing Machine Inc
Curtiss-Wright Corp Princeton Div PO Box
110 Princeton N J (Ultrasonic)
Dillon & Co W C 1620 Keswick St Van
Nuys Calif
Magnafux Corp 7300 W Lawrence Ave
Chicago 31 III "Magnafux," "Magnaglo,"
"Zyglo" "Zyglo-Pentrex" (For flaws)
Magnaglo—See Magnafux Corp.
Metroscope—See Photocon Research Products.

Metroscope—See Photocon Research Prod-ucts.

Olsen Testing Machine Co Tinius 2090 Eas-ton Rd Willow Grove Pa Photocon Research Products 421 N Alta-dena Ave Pasadena 7 Calif 'Metroscope'

dena Ave Pasadena i Cain (Thickness)

RCA Arlin—See Radio Corp of America
Radio Corp of America Detroit Industrial Products 13541 Auburn Ave Detroit 28 Mich "RCA Arlin"

Reflectoscope—See Sperry Products Inc Richle Testing Machine Div., American Machine & Metals, Inc., East Moline, Ill. Rockwell—See Wilson Mechanical Instrument Co.

Scleroscope—See Shore Instrument & Mfg.

Scieroscope—See Shore Instrument & Mig.
Co. Shore Instrument & Mig Co 90-35 Van Wyck
Expressway Jamaica 35 N Y "Scieroscope"
Sonofiux Electrical Div of American Box &
Cabinet Co 4200 Perry St Houston Tex
(Portable magnetic)
Sperry Products Inc Danbury Conn "Reflectoscope" (Portable ultrasonic)
Steel City Testing Machines Inc 8809 Lyndon Ave Detroit 38 Mich "Color-Glance"
(Brinell hardness)
Telebrineller—See Teleweld Inc.
Teleweld Inc 11535 Franklin Ave Franklin
Park 4 Ill "Telebrineller" (Portable hardness)

Tukon-See Wilson Mechanical Instrument

Co. Wilson Mechanical Instrument Div American Chain & Cable Co 929 Connecticut Ave Bridgeport 2 Conn "Rockwell" "Tukon"

(Hardness)
Zyglo-See Magnaflux Corp.
Zyglo-Pentrex—See Magnaflux Corp

MACHINES, Testing (Plastic)

Dillon & Co W C 14620 Keswick St Van Nuys Calif Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa

MACHINES, TESTING (Pressure and Vac-uum)—See Machines, Pressure and Vacuum uum)-S

MACHINES, Testing (Spring)

C & M-See Coulter & McKenzie Machine Co.

Chatillon & Sons, John, 85 Cliff St., New

Chathion & Sons, John, 55 Chir St., New York 38, N. Y. Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn "C & M" Ferner Cu., K. Y., 131 State St., Boston, Mass. (Imported.) Link Engrg Co 13840 Elmira Ave Detroit 27 Mich.

Mich
Olsen Testing Machine Co., Tinius, 500 N.
12th St., Philadelphia, Pa.
RCA Arlim—See Radio Corp of America
Radio Corp of America Detroit Industrial
Products 13541 Auburn Ave Detroit 23
Mich "RCA Arlin"
Rienie Testing Machine Div., American Machine & Metals, inc., East Moline, Ili.
Toledo Scale Co Telegraph Rd Toledo 13 Ohio

MACHINES, Testing (Weathering) (For testing action of sun, rain, heat and cold on finishes of bodies and other parts.)

Atlas Electric Devices Co 4114 N Ravens-wood Ave Chicago 13 III "Weather-Ometer" Weather-Ometer—See Atlas Electric De-vices Co.

MACHINES, Thread Cutting

Acme-See Hill Acme Co Acme Machinery Div
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Fa.
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Eastern Machine Screw Corp., Truman &
Barciay Sts., New Haven 6, Conn.
"H & G."
Ecopomy Freiscontes

Economy Engineering Co., 108 Vine St., Willoughby, Ohio. (Automatic.) ellows Gear Shaper Co 78 River St Spring-field Vt

Fellows Gear Shaper Co 78 River St Springfield Vt
Grant Mfg. & Machine Co., 90 Silliman Ave.,
Bridgeport 5, Conn.
H & G-See Easter: Machine Screw Corp.
Hill Acme Co Acme Machinery Div 1201 W
65th St Cleveiand 2 Ohio "Acme"
Kaufman Mfg. Co., 29th St. & Meadow Lane,
Manitowoc, Wie.
Kent Machine Co., 113 Portage Trail, Cuyahoga Falls, Ohio.
Landhydro—See Landis Machine Co.
Landis Machine Co. Fith & Church Sts
Waynesboro Pa "Landmaco" "Landhydro"
Landmaco—See Landis Machine Co.
Oster Mfg. Co E 289th St. Wickliffe Ohio
"Wilco" "Rapiduction" Tom Thumb"
"Pipe Master—See Oster Mfg. Cc
R.S.—See Rickert-Shafer Co
Rapiduction—See Oster Mfg. Co.
Rickert-Shafer Co., 613 W. 11th St., Erie,
Pa. "R-S."
Roto-Matic—See Davis & Thompson Co

Pa. "R-S."
Roto-Matic—See Davis & Thompson Co
Snow Mfg. Co., 435 Eastern Ave., Bellwood,

Ill.
Toledo Pipe Threading Machine Co., 1445
Summit Ave., Toledo 4, Ohio.
Tom Thumb—See Oster Mfg. Co.
Wilco—See Oster Mfg. Co.

MACHINES, Thread Grinding (Production)

Dalzen Mig Co 525 S Riverside St St Clair Mich

Mich
Ex-Cell-O Corp 1200 Oakman Blvd Detroit
32 Mich "XLO"

J & L—See Jones & Lamson Machine Co.
Jones & Lamson Machine Co 523 Clinton
St Springfield Vt "J&L" (Automatic)
Landis Machine Co Fifth & Church Sts
Waynesboro Pa (Centerless)
Sheffield Corp., 721 Springfield St., Dayton 1,
Ohio. Ohio. XLO-See Ex-Cell-O Corp.

MACHINES, THREAD MILLING—See Ma-chines, Milling (Thread)

MACHINES, Thread Rolling

Bliss Co E W 1375 Raff Rd S W Canton Ohio Economy Engrg Co 108 Vine St Willoughby

Economy Engrg Co 108 Vine St Willoughby Ohio
Hartford Special Machinery Co 287 Homesteed Ave Hartford 12 Conn
Landis Machine Co Fifth & Church St Waynesboro Pa "Lanhyrol"
Lanhyrol—See Landis Machine Co Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio "Sheffield-Murchey"
Namco—See National Acme Co National Acme Co 170 E 131st St Cleveland & Ohio "Namco" (Hydraulic) National Machinery Co., Tiffin, Ohio.
Reed Rolled Thread Die Co P O Box 350 Worcester 1 Mass
Sheffield-Murchey—See Murchey Div Sheffield Corp
Waterbury Farrel Foundry & Machine Co 463 Bank St Waterbury 20 Conn
MACHINES, THREADING AND TAPPING—See Machines, Tapping and Threading

MACHINES, Tube Flaring

MACHINES, Tube Making

American Electric Fusion Corp 2610 Diversey
Ave Chicago 47 Ill
Kane & Roach Inc Niagara & Shonnard Sts
Syracuse 4 N Y (Radiator)
McKay Machine Co 226 W Federal St
Youngatown Ohio
Yoder Co 5553 Walworth Ave Cleveland 2

MACHINES. ACHINES, VACUUM TESTING—See Ma-chines, Pressure and Vacuum Testing

MACHINES, WASHING (AUTOMOBILE-See Washers, Automobile (Systems)

MACHINES, Washing (Mask)

Conforming Matrix Co Toledo Factories Bldg Toledo 2 Ohio

MACHINES, Washing (Metal Parts)—See Machines, Degreasing and Washing (Metal Parts)

MACHINES, Welding - See Welders and Equipment

MACHINES, Wheel Rim Rolling

McKay Machine Co 825 W Federal St Youngstown Ohio

MACHINES, Wire Splice (Horizontal) AMP Inc Harrisburg Pa

MACHINES, X-Ray

General Electric Co X-Ray Dept 4855 Elec-tric Ave Milwaukee 1 Wis Westinghouse Electric Corp X-Ray Div 2519 Wilkens Ave Baltimore 3 Md "Micronex" "Productograph"

MAGNESIUM ALLOYS-See Alloys, Mag-

MAGNESIUM CASTING-Ses Castings, Magneslum

MAGNETIC DRAIN PLUGS-See Plugs, Drain (Magnetic) Couplings,

MAGNETO COUPLINGS - See Cou Magneto, Generator and Water Pump MAGNETO PARTS-See Parts, Magneto, Coil and Distributor

MAGNETOS, Ignition

American Bosch Div American Bosch Arma Corp 3664 Main St Springfield 7 Mass Bendix—See Scintilla Div Bendix Aviation Corp

Corp Fairbanks Morse & Co., Magneto Div., Beloit, Wis. Scintilla Div Bendix Aviation Corp Sidney N Y "Bendix"

Co., 43 Phelon Ave., West ico Electric Co., Springfield, Mass.

MALLETS, BRASS, COPPER OR RUBBER-See Hammers, Soft Face

MANDRELS, Expanding

Champion—See Western Tool & Mfg Co Count-Centric—See Le Count Tool Works

Erickson Tool Co 2309 Hamilton Ave Cleve-land 14 Ohio Chicago-Latrobe 426 W Ontario St Chicago 10 III

10 III e Count Tool Works Inc 38 Cody St West Hartford 10 Conn "Le Count" "Count-Centric" "Micr-O-Mite"

Lee Co., K. O., Congress at First Ave., S. E., Aberdeen S D Logansport Machine Co., Center Ave., ogansport Machine Co., Center Ave., Logansport, Ind. "Logan." (Pneumatic and hydraulic.)

hydraulic.)

Micr-O-Mite—See Le Count Tool Works Inc Roll-Lock—See Scully-Jones & Co Scully-Jones & Co Scully-Jones & Co Scully-Jones & Co 1977 S Rockwell St Chicago S Ill "Roll-Lock"

Western Tool & Mig Co 1620 E Pleasant St Springfield Ohio "Champlon"

Woodworth Co N A 1300 E 9 Mile Rd Detroit 20 Mich

MANIFOLDS, Intake and Exhaust (Auto)

Almquist Engrg Co Milford Pa (Dual in-take) Continental Motors Corp., Muskegon 82.

Mich.
Detroit Gasket & Mfg. Co., 12640 Burt Rd..
Detroit, Mich. "Steelbestos."
Edelbrock Equipment Co 4921 W Jefferson
Blvd Los Angeles 16 Calif (Special intake)
International Parts Corp 11th & State Sts
Chicago 5 III

CHINES, Tube Flaring

(See also Tools, Tube Flaring)

onard Precision Products Co 9200 Boisa
Ave Santa Ana Calif

Steelbestos—See Detroit Gasket & Mfg. Co.
Weland Power & Racing Equip 2733 San
Fernando Rd Los Angeles 65 Calif

MANIFOLDS, WIRING (Metal)—See Cenduit,
Flexible Car Wiring

MARKING MACHINES-See Machines, Mark-

MASKING COMPOUNDS, PASTES AND MATTING, Aluminum
PAINTS—See Compounds, Masking MASKING TAPE-See Tape, Masking

MASK WASHING MACHINES — See chines, Washing (Mask)

MATERIALS, MOLDING (PHENOLIC, UREA, CELLULOSE ACETATE, etc.)—See Plastics—Materials MATS, CARPET-See Carpet, Auto

MATS, LINOLEUM — See Coverings, Floor (Bus or Truck) MATS or MATTING, Rubber

Ace Rubber Products Inc 100 Beech St Akron Ohio Amco-See Asbestos Mfg Co Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12. Ohio. "Tutex." (Mats.) Aristo-See Mitchell Rubber Products Inc Armor-Flex-See Doan Mfg Div Asbestos Mfg Co E Sabine St Huntington Ind "Amco"

Ind "Amco"
Baldwin Rubber Co., 366 S. Boulevard, E.,
Pontiac, Mich. (Mats.)
Better Monkey Grip Co., 5320 Harry Hines
Blvd., Dallas 22 Tex. "Monkey Grip."
(Mats; sole distributors. Monkey Grip Sales
Co., 5320 Harry Hines Bldg., Dallas 22

(Mats; sole distributors, abidg., Dallas 22
Tex.)
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071
Boston 3 Mass) (Matting)
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio
Car-Pet—See Crest Mfg Co
Clair-Carpet—See St Clair Rubber Co
Continental—See St Clair Rubber Co
Continental—See Kraco Products Inc
Continental—See Kraco Products Inc
Continental Rubber Works 1946 Liberty Bt
Erie Pa (Matting)
Crest Mfg Co 5735 Cass Ave Detroit 2 Mich
"Car-Pet"

Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A" Dayton Rubber Co 2342 Riverview Ave Day-

Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-

Lohuon
Flex"
uet—See Mitchell Rubber Products Inc Esquire—See Kraco Products Inc Ex-Cel—See Mitchell Rubber Products Inc Fabric Mfg Co 97 Chestnut St Newark Fargo Rubbe er Corp 187 E 58th St Los An-

geles 11 Calif Fulmer Arthur 260 Monroe Ave Memphis 1 Tenn "Ful-Pro-Tex" (Front rear and trunk)

Fulmer Arthur 250 Monroe ave Ammpun 1 Tenn "Ful-Pro-Tex" (Front rear and trunk)
Ful-Pro-Tex—See Arthur Fulmer
Gates Rubber Co 999 S Broadway Denver
17 Colo 'Gates Vulco' (Mats)
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St
Akron 16 Ohio
Goodyear Tire & Rubber Co E Market St
Akron 16 Ohio
Guard-A—See Dallas Mfg & Sales Co
Haywood Industries P O Box 1004 Dayton 1
Ohio 'Modac' (Mats)
Imperial—See Kraco Products Inc
Kraco Products Inc 2411 W Sante Fe Ave
Compton Calif "Continental" "Esquire"
"Imperial" "Monarch" (Mats)
Mercer Rubber Co. Hamilton Sanare, N. J.
Mitchell Rubber Products Inc 2130 San Fernando Rd Los Angeles 65 Calif "Aristo"
"Duet" "Ex-Cel" "Panama" "Sta-Neet"
"Super-Royal"

'Duet" "Ex-Cel" "Panama" 'Super-Royal" odac—See Haywood Industries march—See Kraco Products Ir Modac

Monarch—See Kraco Products Inc Monkey Grib—See Better Monkey Grip Co Moore & Co Samuel Mantua Ohio "Rub-Ruh"

Bub"
Niagara Fabric Mfg. Co., 26 Waverly Pl.,
New York 3, N. Y.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Orco.—See Ohio Rubber Co.
Panama—See Mitcheil Rubber Products Inc
Richardson Co., Lockland, Ohio
Rub-Bub.—See Samuel Moore & Caubbermaid Inc E Bowman St Wooster Ohio
"Rubbermaid Kar-Rugs" "Stylemaster
Kar-Rugs" "Stylemaster

Kar-Rugs"

St Clair Rubber Co 440 Jefferson Ave E Detroit 26 "Clair-Carpet" (Sole distributors Midwest General Corp 440 E Jefferson Ave Detroit 26 Mich)

Selberling Rubber Co Akron 9 Ohio (Mats)

Sta-Neet—See Mitchell Rubber Products Inc Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Mats)

Stylemaster Kar-Rugs—See Rubbermald Inc

Stylemaster Kar-Rugs—See Rubbermald Inc Super-Royal—See Mitchell Rubber Products

Thermoid Co Whitehead Rd Trenton 6 N J Tuftea—See Anchor Rubber Products, Inc. United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20. N. Y. Zink Corp Howard Fremont Ohio

Erdle Perforating Co., 171 York St., Rochester 11, N. Y. "Pyrma."

Pyrma—See Erdle Perforating Co.
Zenite Metal Corp 201 N West St Indianapolis 7 Ind.

METAL, BODY FILLING-See Solder

METAL FORMING MACHINES (Wire and Ribbon)—See Machines, Forming (Metal) METALLIZING WIRE-See Wire, Metallizing METALLURGY, POWDER-See Parts, Metal-

METAL PARTS DRYERS - See Machines, Drying (Metal Parts) METAL SPRAY GUNS-See Sprayers, Molten

METAL TESTING COMPOUNDS—See Compounds, Metal Testing

METAL TESTING INSTRUMENTS—See In-struments, Metal Testing

METAL TESTING M. chines, Testing (Metal) MACHINES-See Ma-

METALS, Bearing

Adamant—See Magnolia Metal Co Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum alloy) American Non-Gran Bronze Co., 511 Old Lancaster Rd., Berwyn, Pa. "Non Gran."

B-M-C-See Burlington Brass Works
Bearium Metals Corp Mill & Commercial
Sts Rochester 14 N Y (Bronze)
Belmont Smeiting & Heining Works, 326a
Belmont Ave., Brooklyn, N. Y.
Benson-See Hewitt Metals Corp.
Boston Gear Works Div Murray Corp 14
Hayward St Quincy 71 Mass
Bound Brook Oil-Less Bearing Co., Bound
Brook, N. J
Buckeye Brass & Mfg Co 5410 Hawthorne
Ave Cleveland 3 Ohio "Buckeye" "HySpeed" "Lubrico" "Premier"
Bunting Brass & Bronze Co 715 Spencer St
Toledo 9 Ohio (Bronze)
Burlington Brass Works Burlington Wis
"B-M-C"
Chase Brass & Convert

"H-M-C"
Chase Brass & Copper Co 236 Grand St Wa-terbury 20 Conn (Bronze)
DZL—See Magnolia Metal Co
Defender—See Magnolia Metal Co

Divco—See Division Lead Co Division Lead Co 7742 W 61st Pl Summit III

Division Lead Co 742 w 61st F1 Summit In "Divco"
Dutch Boy—See National Lead Co
Empire Metal Co.. 820 E. Water St., Syracuse, N. Y. (Babbitt)
Federated Metals Div. of American Smelting
& Refining Co., 120 Broadway, New York
S. N. Y. "Federated." "Merit Brand."
"XXXX Nickel." (Nickel babbitt.)
Glyco—See Joseph T. Ryerson & Son, Inc.
Government Genuine—See United American
Metals Corp.
Hewitt Metals Corp., 12th St. at Stanley
Ave., Detroit & Mich. "Benson," "Hewitt
Gonuine." "Radium A." "Prize Ribbon,"
"Hewitt Copper Hard," "Mocar," "Hewmet."

"Hewitt Copper Hard," "Mocar," "Hewmet."

Hewmet.—See Hewitt Metals Corp.

Hy Speed.—See Buckeye Brass & Mfg. Co.
Johnson Bronze Co., 510 S. Mill St., New
Castle. Pa.
Lotus—See Luman Bearing Co.
Lubrico—See Buckeye Brass & Mfg. Co.
Lumen Bearing Co., 197 Lathrop St., Buffalo 12. N. Y. "Machinebronze." (Bronze;
"Lotus," "Stannum," "Old Genuine" babhitt.) bitt.)

bit.)

Machinebronze—See Lumen Bearing Co.

Magnolia Metal Co 18 W Jersey St Elisabeth

1 N J Adamant, "Power," "Defender,"

"DZL," "Magnolia," "Pryramid."

Merit Brand-—See Fewitt Metals Corp.

Mocars—See Hewitt Metals Corp.

Mocasin Bushing Co 2000 Chestnut St Chattanoga Tenn (Bronze bars)

Mueller Brass Co 1925 Lapeer Ave Port Huron Mich

National Lead Co 111 Broadway New York

6 N Y "Dutch Boy"

Non Gran—See American Non-Gran Bronze

Co

Co North American Smelting Co Marine Ter-minal Wilmington Del (Babbitt) Old Genuine—See Lumen Bearing Co Pittsburgh Brass Mfg Co 3156 Penn Ave Pittsburgh 1 Pa Power—See Magnolia Metal Co Premier—See Buckeye Brass & Mfg Co Prize Ribbon—See Hewitt Metals Corp

Pyramid—See Magnolia Metal Co Radium A—See Hewitt Metals Corp River Smelting & Refining Co 4195 Bradley Rd Cleveland Ohio "River R S" Ryerson & Son Inc Joseph T 16th & Rock-well Sts Chicago Ill "Glyco" Scully Foundry & Machine Co 66 S River St Coxsackle N Y Stannum—See Lumen Bearing Co Stonewall—See United American Metals

Corp. Syracuse—See United American Metals

Corp.
True Alloys Inc 284 S Summit St Detroit 9
Mich Acceptan Metals Corp 970 Meeker

Mich United American Metals Corp 970 Meeker Ave Brooklyn 22, N. Y. "Government Gen-uine," "Syracuse," "Stonewal." United States Gasket Co Plastic Div of Garlock Camden 1 N J XXXX Nicket—See Federated Metals Div.. American Smelting & Refining Co.

METALS, Perforated

Diamond Mfg Co 243 W Eighth St Wyoming Pa Ferguson Perforating & Wire Co 130-140 Ernest St Providence 5 R I Harrington & King Perforating Co 5655 Fill-more St Chicago 44 Ill Rigidizer Metals Corp 769 Ohio St Buffalo 3

METALS, Powdered

(For products made by powder met-allurgy—See Parts, Metallic Powder)

Belmont Smeiting & Refining Works, 326A Belmont Ave.. Brooklyn, N. Y. Bound Brook Oil-Less Bearing Co Bound Belmont Smetting & Renning works, see Belmont Ave. Brooklyn, N. Y. Bound Brook Oil-Less Bearing Co Bound Brook N J "Compo" "Powdiron" Colmonoy—See Wall Colmonoy Co Compo—See Bound Brook Oil-Less Bearing

Co
Co
Cikonite—See P. R. Mallory & Co.
Eikonite—See P. R. Mallory & Co.
Gildden Co Chemicals-Pigments-Metals Div
1717 Summer St Hammond Ind (Lead copper alloy and filter)
Johnson Bronze Co., 510 S. Mill St., New
Castle, Pa.
MD—See Metals Disintegrating Co.
Mallory & Co P R 3029 E Washington St Indianapolis 6 Ind "Elkonite" (Copper base)
Metals Disintegrating Co., Box 290, Elizabeth B, N. J. "MD."
Moraine Products Div., General Motors
Corp., 1420 Wisconsin Blvd., Dayton, Ohlo.
New Jorsey Zine Co 160 Front St New York
38 N Y (Brass nickel-silver copper and
sine)

sinc)
Plastic Metals Div National-U S Radiator
Co 4800 Bridge St Johnstown Pa "Plast-Iron" "Plast-Manganese" "Plast-Nickel"
"Plast-Steel" "Plast-Silicon" (Iron nickel manganese silicon steel etc)
owdiron—See Bound Brook Oil-Less Bearing Co
aybestos Div of Rauberts Plastic

ing Co Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn Republic Steel Corp Republic Bldg Cleveland 1 Ohio (Iron)

Vanadium-Alloys Steel Co Latrobe Pa

(Steel)
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy"
Wilson Co H A 2655 U S Route 22 Union N J METALS, THERMOSTATIC-See Bi-Metals,

METERS, Engine Hour (Truck)

Engler Instrument Co 250 Culver Ave Jersey City 5 N J Hobbs Corp John W Yale Blvd & Ash St Springfield Ill

METERS, OIL TEMPERATURE INDICAT-ING—See Gages, Oil Temperature Indicating

METERS. Turbine

hermostatic

Fischer & Porter Co 700 Warminster Rd Hatboro Pa

METERS, WATER TEMPERATURE INDI-CATING — See Gages, Water Temperature Indicating

METERS. Watt-Hour

G-E-See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Corp 3 Gateway Cen-Westinghouse Electric ter Pittsburgh 30 Pa

METERS or ODOMETERS, Distance Recording

(For combined odometers and speed-ometers—See Speedometers)

Actuator Products Corp 40 Nashua St Wo-burn Mass "Apcor"

Apcor—See Actuator Products Corp Barbour-Stockwell Co 295 Broadway Cam-bridge 35 Mass "Reliance" Engler Instrument Co 256 Culver Ave Jersey

See Barbour-Stockwell Co Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicago III
United States Taximeter Co., 514 W. 54th
St., New York 19, N. Y. "Ustcograph."
Ustcograph—See United States Taximeter

eder-Root Inc 20 Sargeant St Hartford

MICA, Sheets, Tubes, Washers and Cores Asheville-Schoonmaker Mica Co Newport News Va

News Va Continental-Diamond Fibre Corp Newark 10 Del "Micabond" Isomica—See Mica Insulator Co Micabond—See Continental-Diamond Fibre

Corp Corp Mica Insulator Co Broadway Schenectady N Y "Isomica" & "Micanite" Mycalex Corp of America 125 Clifton Bivd Clifton N J (Glass-bonded sheets and rods)

MICROMETERS

(See also Gages, Cylinder; also Gages, Piston Pin Fitting; also Gages, Piston Ring)

Ames Co., B. C., 12 Ames St., Waltham 54,

Mass.
Ammeo Tools Inc 2100 Commonwealth Ave
North Chicago III (Brake drum)
Automotive Service Tools Inc 700 Sheridan
St Lansing 6 Mich (Crankshaft and brake
drum) & Co., John, 18 Grafton St., Worcester

Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, B. I. Central Tool Co 456 Wellington Ave Cranston 10 R I "Central" "Read-Rite"
Do All 254 N Laurel Ave Des Plaines III Federal Products Corp 1144 Eddy St Providence 1 R I "Mikemaster" (Indicating)
Keystone Reamer & Tool Co., Millersburg, Pa.

Pa.

Lufkin Rule Co Hess Ave Saginaw Mich (Crankshaft, inside, outside, etc)
Mikemaster—See Federal Products Corp
Millers Falls Co Greenfield Mass
Namco—See National Acme Co

Namco—See National Acme Co
National Acme Co 170 E 131st St Cleveland
8 Ohio "Namco"
P & W Supermicrometer—See Pratt &
Whitney Co
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn "P & W Supermicrom-

Read-Rite-See Central Tool Co Read-Rite—See Central Tool Co Rimat Gage Co 21 W Payton St Pasadens 2 Calif (Inside) Rottler Boring Bar Co 1221 Poplar Pl Seattle 44 Wash (Bore) Scherr Co., George, 200 Lafayette St., New York 12, N. Y. Starrett Co., L. S., 1 Crescent St., Athol, Mass.

Mi Mass. Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich Tubular Micrometer Co St James Minn Van Keuren Co., 176 Waitham St., Water-town, Mass. (Light wave.)

MILLING CUTTERS—See Cutters, Milling
MILLING MACHINE ATTACHMENTS—See
Chucks, Milling Machine; also Vises, Milling Machine; also Vises, Milling Machine; Machine ing Machine

MILLING MACHINES-See Machines, Milling MILLS, PAINT GRINDING AND MIXING— See Machines, Kneading and Mixing MIRROR BRACKETS-See Brackets, Mirror

MIRRORS, Rear Vision

American Automatic Devices Co Harrison
Throop & Congress Sts Chicago 7 Ill "King
Bee Protecto" (Rubber rim for trucks and
buses); "King Bee Protecto (West Coast
type for truck tractors); "King Bee Extended Eye" & "King Bee Regular" (For
passenger cars)
Anthes Force Oiler Co Ft Madison Iowa
(For trucks; "Panoram" & "True Vue"
west coast type)

Anthes Force Oller Co Ft Madison Iowa (For trucks; "Panoram" & "True Vue" west coast type) Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind King Bee—See American Automatic Devices

Panoram—See Anthes Force Oiler Co True Vue—See Anthes Force Oiler Co

MIXING MACHINES-See Machines, Kneading and Mixing MOHAIR-See Fabrics, Upholstery

MOLDED PARTS, Plastic - See Plastics, Molded

MOLDED PARTS, Rubber - See Rubber. MOLDED PARTS, Synthetic Rubber—See Rub-ber, Synthetic (Processed)

MOLDING, Drip (Metal)

Alcoa—See Aluminum Co. of America. Aluminum Co. of America 1501 Alcoa Pittsburgh 13 Pa. "Alcoa" (Aluminum) American Brass Co., 414 Meadow St., Wa bury 20 Colm "Anaconda" (Brass Water. bury 20 Con nickel-silver.)

nickel-silver.)
Anaconda—See American Brass Co.
Binkley Mfg Co Warrenton Mo (Steel)
Lees Div of Serrick Corp John 1300 Batavia
St Muncle Ind (Stainless steel and alumi-

num)
Mitchell Specialty Div Industrial Enterprises
Inc Edmund & Shelmire Sts Philadelphia Peninsular Metal Products Corp., 1365 Jarvis

St., Detroit 20, Mich.
RPM Products Inc 17260 Gable St Detroit 12

Mich Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio

32 Onlo Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)

Reynolds Metals Co 3rd & Grace Sts Rich-mond 19 Va (Aluminum)

mond 19 Va (Aluminum)

Zenite Metal Corp 201 N West St Indianapolis 7 Ind (Aluminum and steel)

MOLDING, Finish (Metal)

Adams Co S G 920 Olive St St Louis 1 Mo
Alcoa—See Aluminum Co. of America.
Aluminum Co of America 1501 Alcoa Bidg
Pittsburgh 19 Pa "Alcoa" (Aluminum)
American Brass Co 414 Meadow St Waterbury 20 Conn "Anaconda" (Brass)
Anaconda—See American Brass Co.
Auto Vehicle Parts Co 1032 Saratoga St
Newport 6 Ky
Bath Co Cyrll 32930 August Da Sch

Newport 6 Ky
Bath Co Cyril 32280 Aurora Rd Solon Ohio
Croname Inc 6201 Howard St Chicago 48 III
Dahlstrom Metallic Door Cu., Special Products Div. 429 Buffalo St., Jamestown, N. Y.
Delta Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Detroit Gasket & Mfg Co 12640 Burt Rd
Detroit Moulding Div. of L. A. Young Spring
& Wire Corp., 4647 4th St., Ecorse, Mich.
(Steel.)

& Wire Corp., 4647 th St., Ecorse, Mich. (Steel.)
Douglas & Lomason Co., 5836 Lincoln Ave.,
Detroit & Mich.
Edgar Corp 1341 Wanda Ave Ferndale 20
Mich
Fifty Corp Bryan Ohio (Steel)
Groboski industries Inc 4344 S Western Ave
Chicago III "Styleking"
Hayes industries, Inc., Wildwood & Fern
Aves, Jackson, Mich.
Hurd Lock & Mfg Co 219 N Main St Almont
Mich
Jacobs Co., F. L., 1643 Spruce St., Detroit 1.

Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.

Mich.

Keystone Metal Moulding Co 1641 Stephens
St East Detroit Mich (Stainless Steel)

Kinkead Industries Inc 5860 N Pulaski Rd
Chicago 30 Ill "Kintrim"
Lees Div of Serrick Corp John 1300 Batavia
St Muncie Ind (Stainless steel and aluminum)

num) efco—See Metal Forming Corp. lefco-

Merrimac Brass 22 High St Merrimac Mass (Lead filled brass nickel and chromium plated)

piated)
Metal Forming Corp 1927 Sterling Ave Elkhart Ind "Mefco" (Aluminum, brass, steel,
stainless steel and nickel alloy)
Mirro Aluminum Co Manitowoc Wis (Aluminum and stainless steel)
Mitchell Specialty Div Industrial Enterprises

ell Specialty Div Industrial Enterprises Edmund & Shelmire Sts Philadelphia Inc E

Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich. Pyramid Mouldings Inc 5353 W Armstrong Ave Chicago 30 Ill

RPM Products Inc 17260 Gable St Detroit 12 Mich Randall Co 5000 Spring Grove Ave Cincin-

nati Ohio (Steel)
Regal Motor Products Inc 6325 Grand River
Ave Detroit 8 Mich

Ave Detroit & Mich Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.) Reynolds Metals Co 3rd & Grace Sts Rich-mond 19 Va (Aluminum) Roll Formed Products Co 3765 Oakwood Ave Youngstown Ohlo

Southern Mouldings Inc Owenton Rd Frank-fort Ky (Steel)

MOLDING, Finish (Metal)-continued

Styleking-See Groboski Industries Inc Western Mouldings Inc 1111 E Eighth St Up-

StyleRing
Western Mouldings Inc 1111 La Language
land Calif
Young Spring & Wire Corp 9200 Russell St
Detroit 11 Mich (Garnish)
Zenite Metal Corp 201 N West St Indianapolis 7 Ind (Aluminum brass and steel)

MOLDING, Finish (Plastic)

Anchor Plastics Co 36-36 36th St Long Island City 6 N Y "Plastic Krome"

MOLDING MACHINES (Metal) — See Ma-chines, Molding (Metal Foundry) MOLDING MATERIALS — See Plastics—Ma-

MOLDING PRESSES, PLASTIC-See Presses, Plastic Molding

MOLDING ROLLING MACHINES—See Ma-chines, Rolling (Strip)

MOLYBDENUM

Fansteel Metallurgical Corp., 2200 Sheridan Road, North Chicago, Ill.

MOLYBDENUM ALLOYS-See Alloys, Molyb-

MONEL METAL CASTINGS—See Castings, Monel Metal

ONEL METAL, Sheets, S Rods, Hot and Cold Rolled MONEL Strips and

Alloy Metal Wire Co., 13th & Pennsylvania Aves., Moores, Prospect Park, Pa.

MONOGRAMS, INITIALS and EM-BLEMS, Ornamental

Acromark Co 9 Morrell St Elizabeth 4 N J

Acromark Co 9 Morrell St Elizabeth 4 N J
Attwood Brass Works Inc 303 Douglas St
N W Grand Rapids Mich (Emblems)
Auld Co D L 5th Ave & 5th St Columbus
Ohio (Emblems)
Autograms—See Signa-Craft Inc
Benmatt Organization Inc 3447 E 15th St Los
Angeles 23 Calif (Monogran.s)
Douglas Co 620 12th Ave Minneapolis 4 Minn
Electro Chemical Engraving Co 1100 Brook
Ave N Y 58 N Y (Emblems)
Etched Products Corp 39-01 Queens Blvd
Long Island City 4 N Y
Fox Co., 3400 Beekman St., Cincinnati 23,
Ohio.

Long Island City & Fox Co., 3400 Beekman St., Cincinnata ze, Ohlo. Gem Mfg Co 2535 S State St Chicago 16 III Norgren-Stemac Inc 1277 S Cherokee St Denver 23 Colo "Stemac" Northern Engraving & Mfg. Co., Fourth & Vine Sts., La Crosse, Wis. Regal Motor Products Inc 6325 Grand River Ave Detroit & Mich (Fender emblems) Signa-Craft Inc 292 5th Ave N Y N Y "Autograms" (Initials) Stemac—See Norgren-Stemac Inc

MONORAIL TROLLEYS-See Trolleys, Mono-

MOSS, Upholstery

(See also Hair, Upholstery; also Felt, Upholstery)

American Forest Products Co Box 911 Nor-ristown Pa

MOTOR GENERATORS, BATTERY CHARG-NG—See Generators, Electric Lighting and Battery Charging (Auto)

MOTOR STARTERS-See Starters, Motor, for

MOTOR STARTING COMPENSATORS -Compensators, Motor Starting (Industrial) MOTOR TRUCKS—See Trucks, Motor

MOTORS, Air Operated

Bellows Co., 222 W. Market St., Akron 9, Ohio,

Gast Mfg Corp 2300 Highway M-139 Benton Harbor Mich Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich Leiman Bros., Inc., 166 Christie St., Newark 5, N J.

o, N. J. nsrud Machine Works Inc Machine Tool Div 7720 N Lehigh Ave Niles Ill

MOTORS, CRANKING—See Motors, Starting (Air); also Motors, Starting (Electric)

MOTORS, Electric (Aircraft Use) Lamb Electric Co Kent Ohio

MOTORS, Electric, Automotive Use (F.H.P.)

(F.H.F.)
American Bosch Div American Bosch Arma
Corp 3664 Main St Springfield 7 Mass (For
seat adjusters top lifts and window lifts)
Barber-Colman Co 1300 Rock St Rockford
Ill "Barcol" (Sub)
Barcol—See Barber-Colman Co
Delco Appliance Div., General Motors Corp.,
391 Lyell Ave., Rochester, N. Y.
General Armature & Mfg Co Box 370 Lock
Haven Pa (For heaters windshield wipers
etc to order)

Haven Fa (FOF neaters whiteshear whyse etc to order)
General Industries Co., Olive St., Elyria,
Ohio. (For heaters and defrosters.)
Hertner Electric Co 12690 Elmwood Ave
Cleveland 11 Ohio
L-B—See Lydon-Bricher Mfg. Co.
Lecce-Neville Co 1374 E 51st St Cleveland 3

Ohio
Lydon-Bricher Mfg. Co., 2500 University
Ave., St. Paul 4, Minn. "L-B." (For fans
heaters, etc.)
Micromotor—See Redmond Co
Redmond Co Owosso Mich "Micromotor"
Signal Mfg Co 69 Bennett St Lynn Mass
(For heaters and windshield wipers)
Storm-King Products Co., 148-08 95th Ave.,
Jamaica, N. Y. (For heaters.)

MOTORS, Electric, for Driving Ma-

Abart Gear & Machine Co 4832 W 16th St Chicago 50 Ill (Also gearmotors) Adaloy—See Adams Engrg. Co. Adams Engrg Co 31711 Solon Rd Solon Ohio

Adaloy—See Adams Engrg. Co.
Adams Engrg Co 31711 Solon Rd Solon Ohio
"Adaloy" (Gearmotors)
Adjustospede—See Eaton Mfg Co Dynamatic Div
Allis-Chalmers Mfg Co Milwaukee 1 Wis
Allis Co Louis 427 E Stewart St Milwaukee
7 Wis (Also gearmotors)
All-Motor—See Falk Corp
Atlas Press Co 1842 N Pitcher St Kalamazoo
Mich (Fractional)
AutoStart—See U. S. Electrical Motors, Inc.
Baldor Electric Co., 4351 Duncan Ave., St.
Louis 10, Mo.
Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 N J
Boston Gear Works Div Murray Corp 14
Hayward St Quincy 71 Mass "Rationmo-

son 3 N J oston Gear Works Div Murray Corp 14 Hayward St Quincy 71 Mass "Rationmotor' (Gearmotors)
Century Electric Co., 1806 Pine St., St. Louis
3, Mo.

tional.)
Delco Products Div., General Motors Corp.,
329 E. First St., Dayton 1, Ohio.
Diehl Mfg. Co., Finderme Plant. 1011 Finderme Ave., Somerville, N. J.
Dumore Co 1300 17th St Racine Wis (Fractional).

tional)
EMC—See Electric Motor Corp.
Eaton Mfg Co Dynamatic Div 3307 14th Ave
Kenosha Wis "Adjustospede" (Also frac-

tional)
Electric Motor Corp Div of Howard Industries Inc 1760 State St Racine Wis "EMC"
(Fractional)
Electric Products Co. 1795 Clarkstone Rd

(Fractional)
Electric Products Co 1725 Clarkstone Rd
Cleveland 12 Ohlo
Elliott Co Jeannette Pa
Emerson Electric Mig. Co., 8109 Florissant
Ave., Detroit 21, Mich.
Fairbanks, Morse & Co., 600 S. Michigan
Ave., Chicago 5, Ill.
Faik Corp 3001 W Canal St Milwaukee Wis
"All Motor" "Motoreducers" (Gearmotors) tors)

tors)
Foote Bros Gear & Machine Corp 4545 S
Western Blvd Chicago 9 III (Gearmotors)
Forbes & Myers 172 Union St Worcester 8
Mass (To order)
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E" "Kinmatic" & "Tri-Clad" (Also gearmotors)
Hertner Electric Co., 12690 Elmwood Ave.,
Cleveland 11, Ohio.
Howard Industries Inc 1760 State St Racine
Wis

Wis
Howell Electric Motors Co 409 N Roosevelt
St Howell Mich (Also gearmotors)
Kingston-Conley Co 68 Brook Ave North
Plainfield N J

Plainfield N. T.
Kinmatic—See General Electric Co
L & R Mfg Co 577 Elm St Arlington N J
(Fractional)
Lamb Electric Co., Kent, Ohio. (Fractional)
Leland Electric Co 1501 Webster St Dayton 1 Ohio
Life Line—See Westinghouse Electric Corp

Lima Electric Motor Co Findlay Rd Lima

Lincoln Electric Co 22801 St Clair Ave Cleve-land 17 Ohlo "Linc-Weld" Link-Belt Co Prudential Plaza Chicago 1 Ill

Link-Belt Co Prudential Plaza Chicago 1 Ill (Gearmotors)
Marathon Electric Mfg Corp Wausau Wis
Master Electric Co Div Reliance Electric &
Engrg Co 126 Davis Ave Dayton 1 Ohio
Michigan Tool Co Cone Drive Gear Div
'1717 McNichols Rd E Detroit 12 Mich
''Cone-Drive'' (Gearmotors)
Motoreducers—See Falk Corp
Packard Electric Div General Motors Dana
St Warren Ohio

St Warren Ohio Peerless Electric Co 1401 W Market St War-

ren Ohio Philadelphia Gear Works Inc Erie Ave & O Sts Philadelphia 34 Pa (Gearmotors) Rationmotor—See Boston Gear Works Div Rationmotor—See Boston Gear Murray Corp Reco—See Reynolds Electric Co.

Murray Corp
Reco—See Reynolds Electric Co.
Reliance Electric & Engineering Co 24701
Euclid Ave Cleveland 17 Ohio
Reuland Electric Co 3000 W Mission Rd
Alhambra Calif
Reynolds Electric Co., 3000 River Rd., River
Grove, Ill. "Reco." (Fractional.)
Robbins & Myers, Inc., 1345 Lagonda Ave.,
Springfield, Ohio.
Slo-Speed—See Sterling Electric Motors Inc
Smith Corp A O 27th & Hopkins Sts Milwaukee 1 Wis
SpeedWay Mfg Co 1421 Barnsdale Rd La
Grange Park Ill
Star-Kimble Motor Div Miehle Printing
Press & Mfg Co 200 Bloomfield Ave Bloomfield N J
Sterling Electric Motors Inc 5401 Telegraph
Rd Los Angeles 22 Calif "Slo-Speed"
(Gearmotors)
Syncrogear—See U. S. Electrical Motors, Inc.
Tri-Clad—See General Electric Co
Uniclosed—See U. S. Electrical Motors, Inc.
Tri-Clad—See General Electric Co
Uniclosed—See U. S. Electrical Motors, Inc.
U. S. Electrical Motors, Inc., 200 E. Slauson
Ave., Los Angeles 54, Cal. "Varidrive."
"Syncrogear," "Uniclosed." "AutoStart."
Universal Electric Co 300 E Main St Owosso
Mich (Fractional)
Valley Electric Corp., 4221 Forest Park Blvd.,
St. Louis, Mo.

Mich (Fractional)
Valley Electric Corp., 4221 Forest Park Blvd.,
St. Louis, Mo.
Varidrive—See U. S. Electrical Motors, Inc.
Wagner Electric Corp 6400 Plymouth Ave

Wagner Electric Corp view Figure 1870 St Louis 14 Mo Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa "Life Line"

3, Mo.

Cone-Drive—See Michigan Tool Co Cone
Drive Gear Div

Continental Electric Co 325 Ferry St Newark 5 N J

Delco Appliance Div., General Motors Corp.,
391 Lyell Ave., Rochester, N. Y. (Fractional.)

Delco Rochasts Dir. Cone. G-E-See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Onsrud Machine Works Inc Machine Tool Div 7720 W Lehigh Ave Niles III

MOTORS, Electric Truck

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

MOTORS, Hydraulic

Barnes Corp John S 301 S Water St Rock-ford Ill Berry Hydraulics a Div of Oliver Tyrone Corp Oliver Bidg Pittsburgh 22 Pa

Corp Oliver Bidg Pittsburgh 22 Pa
Commercial Shearing & Stamping Co 1775
Logan Ave Youngstown Ohio
Denison Engrg Div American Brake Shoe
Co 1160 Dublin Rd Columbus 16 Ohio
"Denison Hydrollic"
Dudco—See New York Air Brake Co
Gerotor May Corp Owings Mills Md
H-P-M-See Hydraulic Power Div
Hydraulic Power Div Hydraulic Press Mfg
Co 1000 Marion Rd Mt Gilead Ohio "H-P-M"
Hydraco—See New York Air Brake Co

Hydreco-See New York Air Brake Co Muncie Parts Mfg Co 2601 S Jefferson St Muncie Ind

Muncie ind

W York Air Brake Co Kalamazoo Div
Kalamazoo Mich "Dudco" "Hydreco"
Oligear Co 1860 W Pierce St Milwaukee 4
Wis

Wis Tuthill Pump Co 939 E 95th St Chicago 19 Ill Vickers Inc Machinery Hydraulics Div Ad-ministrative & Engrg Center Detroit 32

Mich Vickers Inc Mobile Hydraulics Div Adminis-trative & Engrg Center Detroit 32 Mich Webster Electric Co 1900 Clark St Racine Wis Visconsin Hydraulies Inc 2165 N 30th St Milwaukee 18 Wis Wi

MOTORS, Starting (Air)

Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio "Start-aire" Gardner-Denver Co., S. Front St., Quincy,

A N T
L-N-See Leece-Neville Co
Leece-Neville Co 1374 E 51st St Cleveland 3
Ohio "L-N"
tartaire—See Bendix-Westinghouse Automotive Air Brake Co

MOTORS, Starting (Electric)

American Generator & Armature Co 6100 W Grand Ave Chicago 39 Ill Arrow Armature Co 15 Fordham Rd Boston

24 Mass
Auto-Lite—See Electric Auto-Lite Co.
BV—See General Armature & Mfg Co
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Electric Auto-Lite Co Toledo 1 Ohio "Auto-

Lite"
General Armature & Mfg Co Box 370 Lock
Haven Pa "BV"
1.-N-See Leece-Neville Co.
Leece-Neville Co 1374 E 51st St Cleveland 3
Ohio "L-N" (For gas and Diesel engines) G

MOUNTINGS, Rubber Insulated

(For engines, bodies, instruments, etc.
—See also Shackles, Spring) Products Inc 135 N Spring St

Indianapolis Ind

Indianapolis Ind
Anchor Kubber Products, Inc., 1725 London
Rd Cleveland 12 Ohio "Steelastic" (Engine)
Armor-Flex—See Doan Mfg Div
Atlantic India Rubber Works Inc 571 W Polk
St Chicago 7 Ill
Bushings Inc 4558 Coolidge Highway Royal
Oak Mich "Rubberflex" & "Instrumont"
Champ-items, Inc., 6191 Maple Ave, St.
Louis, Mo. (Engine, for Ford and Chevrolet cars.)

Louis, Mo. (Engine, for Ford and Chevrolet cars.)
Clevite Harris Products Inc 6545 Carnegle
Ave Cleveland 3 Ohio "Silentbloc"
Doan Mig Div of Anchor Industries Inc 1725
London Rd Cleveland 12 Ohio "ArmorFlex" (Engine)
Ertel Products Co Repl Div of Ertel Mig
Corp 1402 E 29th St Indianapolis 7 Ind
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio
General Tire & Rubber Co Industrial Products Div Wabash Ind "Silentbloc" (Licensees)

censees)
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio (Engine and
radiator)

Goshen Rubber Co 609 E Iowa St Goshen Ind Inland Mfg Div-General Motors Corp 2727

Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton 1 Ohlo Instrumont—See Bushings Inc Isomode—See MB Mfg Co Lightin—See R J Loock & Co Loock & Co R J 343 N Gay St Baltimore Md "Lightini"

Lightnin" ord Mfg Co 1635 W 12th St Erie Pa

Lord Mfg Co 1635 W 12th St Erie Pa (Shear type)
MB Mfg Co 1660 State St New Haven 11 . Conn "Isomode"
Manhattan-See Raybestos-Manhattan, Inc., Manhattan Rubber Dlv.
National-See Wheel Parts & Mfg Co Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Orco-See Ohio Rubber Co.
Parco-See Parts Mfg Co Parts Mfg Co Parts Mfg Co Sill W 66 St N Y 23 N Y "Parco"

Parts Mfg Co 311 W 66 St N Y 23 N Y
"Parco".

Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn 22 N Y
R/M—See Raybestos-Manhattan Inc
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.
"Manhattan."

Raybestos-Manhattan Inc Equipment Sales
Div Stratford Conn "R/M"
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave
New Brunswick N J
Rubberflex—See Bushings Inc
Silentbloc—See General Tire & Rubber Co
and Clevite Harris Products Inc
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Steelastic—See Anchor Rubber Products
Inc.

Inc. Stillman Rubber Co 5811 Marilyn Ave Culver

Stillman Rubber Co 5811 Marllyn Ave Culver City Calif
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)
Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing & Mich

Ingersoll-Rand Co 11 Broadway New York MUFFLER CLAMPS-See Clamps, Muffler

MUFFLERS, Exhaust (Auto, Truck and Bus)

AP Parts Corp., AP Bidg., 1801 Spiciouscu Ave., Toledo 1, Ohio. (For autos, buses, trucks and tractors.)

trucks and tractors.)
ATI—See Alexander-Tagg Industries inc
Alexander-Tagg Industries Inc Jacksonville
Rd & Summit Ave Hatboro Pa "ATI"
(Truck and bus to order)
Almquist Engrg Co Milford Pa "Twin-Tone"
Arvin Industries Inc 13th St & Big Four RR
Columbus Ind

Columbus Ind Buffalo Pressed Steel Co 460 N Meridian Rd Youngstown 9 Ohio Clayton Mfg Co 401 N Temple City Blvd El Monte Calif "Clayton Clearair" (Bus and

truck)

truck)
Coachcraft Ltd 9015 Santa Monica Blvd
Hollywood 46 Callf (Truck)
Defiance Mfg. Co., Defiance, Ohio.
De Koven Mfg Co 1201 Michigan Blvd Racine
Wis "Pacemaker" & "Soundmaster"
Donaldson Co 666 Pelham Blvd St Paul 14
Minn. (Truck.) Mfg Co 5636 E Shull St

Douglas Muffler Mfg Co 5636 E Shull St Bell Gardens Calif Dyna-Glas—See Goarlich's Dynatone—See Goerlich's Ero Mfg. Co., 714 W. Monroe St., Chicago.

Fifty Plus Five Corp 214 Definance St West Unity Ohio (For Buick, Oldsmobile and Pontiac cars)

perlich's, 619 Smith St Toledo 1 Ohio 'Dynatone' "Goerlich" "Merit" "Dyna-Goerlich's

Glas"
Goldtone—See Ohio Parts Inc
Grand Automotive Products 2055 N Ruby St
Melrose Park III "Quiet Tone"
Haviland Co Arnold 1008 S Jackson St Defiance Ohio "O K" & "Sportsman"
Hayes Industries, Inc., Wildwood and Fern
Aves., Jackson, Mich.
Hy-Power—See Lion Auto Parts & Mfg. Co.
International Parts Corp., 11th & State Sts.,
Chicago 5, III.
Lion Auto Parts & Mfg. Co., 1920 S. Michi-

Cincago 9, ill. Lion Auto Parts & Mfg. Co., 1920 S. Michi-gan Ave., Chicago 16, Ill. "Hy-Power." McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich

MacKenzie Muffler Co 460 N Meridian Rd Youngstown 9 Ohlo Maremont Muffler Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill (Auto

truck and bus)
Merit—See Goerlich's Nelson Muffler Corp Stoughton Wis (For buses trucks and tractors) Northern Tube Co Pinconning Mich O. K.—See Arnold Haviland Co

Ohio Parts Inc 307 Perry St Deflance Ohio "Ohio Pep" "Goldtone" "Onio Pep" "Goldtone"
Oldberg Mfg. Co., 620 N. Seventh St., Grand
Haven, Mich.

Haven, Mich.
Pacemaker—See De Koven Mfg Co
Porter Muffler Mfg Co 11820 W Olympic Blvd
Los Angeles 64 Calif
Powell Muffler Co 4235 W 42nd Pl Chicago
32 Ill "Powell" & "Pow-R-Ride"
Pow-R-Ride—See Powell Muffler Co
Pratt Muffler Div of Mar Pro Inc 168 N
Michigan Ave Chicago Ill
Outet Tore—See Grand Automotive Prod-

Quiet Tone-See Grand Automotive Prod-

ucts
Riker Mfg Inc 4901 Stickney Ave Toledo 12
Ohio (For trucks and buses)
Silencers—See Walker Mfg Co of Wis
Smithy's Muffler Co 1850 N Main St Los Angeles 31 Calif Soundmaster-See De Koven Mfg Co

Sportsman-See Arnold Haviland Co Tech Industries 679 Oakland Park Ave Co-lumbus Ohio (Truck and bus) Twin-Tone—See Almquist Engrg Co

Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis "Silencers" (Individually MUFFLERS, INTAKE CARBURETOR - See Silencers, Carburetor Intake

NAME PLATES - See Plates, Name (Metal and Plastic) NEOPRENE RUBBER-See Rubber, Synthetic

NIBBLERS, Portable Electric

Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio Fenway Machine Co 3107 N Broad St Philadelphia Pa

NICKEL CASTINGS—See Castings, Nickel; also Castings, Nickel-Chromium
NICKEL-CHROMIUM ALLOYS—See Alloys.
Nickel-Chromium

NICKEL-CHROMIUM. Sheets. Stripe and Rods (Hot and Cold Rolled)

Driver-Harris Co Middlesex St Harrison N J "Nichrome" (Rod wire and strip) Nichrome—See Driver-Harris Co.

NICKEL, Electrolytic

International Nickel Co 67 Wall St N Y 5 N Y

NICKEL, Pig and Shot

(For alloying with steel, cast iron and other non-ferrous metals)

other non-ferrous metals)

Belmont Smelting & Refining Works 326a.

Belmont Ave Brooklyn N Y

Falls—See Niagara Falls Smelting & Refining Div Continental-United Industries CoInco—See International Nickel CoInternational Nickel CoInternational Nickel CoYork 5 N Y "Inco"

Niagara Falls Smelting & Refining Div Continental-United Industries Co2204

Elmwood Ave Buffalo N Y "Falls"

(Shot)

NICKEL, Sheets, Strips, Rods (Hot and Cold Rolled)

Alloy—See H K Porter Co Inco—See International Nickel Co. International Nickel Co., 67 Wall St., New York 8, N. Y. "Inco." Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Alloy" (Wire rod and strip)

NICKEL-SILVER

MICKEL-SILVER

American Brass Co 414 Meadow St Water
bury 20 Conn "Anaconda."

Anaconda—See American Brass Co.
Belmont Smelting & Refining Works, 326a
Belmont Ave., Brooklyn, N. Y.

Bridgeport Brass Co 30 Grand St Bridgeport
2 Conn
Chicago Extruded Metals Co., 1602 S. 54th
Ave., Cicero 50, Ill. (Rods.)

Olin Mathieson Chemical Corp Western
Brass Mills Div East Alton Ill "Western
Super-X" (Sheets strips and rolls)

Plume & Atwood Mfg Co Main St Thomaston Conn

Plume & Atwood Mfg Co Main St Thomaston Conn
Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Riverside" (Sheet strip rod and wire)
Riverside—See H K Porter Co
Scovill Mfg. Co., 99 Mill St., Waterbury 20,
Conn. (Sheet, rod & wire.)
Seymour Mfg. Co., 15 Franklin St., Seymour
Conn. (Sheets, strins, wire and rods.)
Western Super-X—See Olin Mathieson
Chemical Corp Western Brass Mills Div

NICKEL SILVER TUBING — See Tubing, Nickel Silver

NOZZLES, Air

(Blow guns for blowing dust and dirt)
Acme Air Appliance Co 205 Newman St.
Hackensack N J
Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Amseco Inc 145 S Monterey Ave Villa Park

III
Aro Equipment Corp Bryan Ohio
Barmotive Products Inc 440 Peralta Ave San
Leandro Calif "Nelson"
Binks Mfg. Co., 3114 Carroll Ave., Chicago

12. III.

12, Ill.

Bridgeport Brass Co 30 Grand St Bridgeport
2 Conn
2 Conn
Bully—See Superior Pneumatic & Mfg Co
Cadillac—See Clements Mfg Co
Champion Pneumatic Machinery Co 825 N
Pleasant St Princeton Ill
Clements Mfg Co 6650 S Narragansett Ave
Chicago Ill "Cadillac"
Decore Mfg Co 1516 Park Ave Empryylle

Chicago Ill "Cadillac" ecora Mfg. Co., 1516 Park Ave., Emeryville

8, Calif.
Diamond-U Products, 8459 Dearborn Ave.,
South Gate. Calif.
Druge Bros Mfg Co 888 92nd Ave Oakland 3
Cal "Tru-Flate" (Sole distributor TruFlate Inc 888 92nd Ave Oakland 3 Cal)
Dutton-Lainson Co., Mfg. Div., Hastinge,
Neb. "Golden Rod."
Gilmour Mfg Co N Center Ave Somerset Pa
"Hosemaster"
Golden Rod.—See Dutton-Lainson Co., Mfg
Div.

Div.
Grayson Tool Co., 1412 W. Second St., Hast ings. Neb.
Hosemaster—See Gilmour Mfg Co
Imperial Brass Mfg Co 6300 W Howard St
Chicago 31 Ill
Koehler Rubber & Supply Co., 3865 Carnegle
Ave., Cleveland 15, Ohlo. "Tri-Con."

NOZZLES, Air-continued

Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo Lonn Mfg Co 2017 W 18th St Indianapolis 7 Ind

National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. Nelson—See Barmotive Products Inc Norgren Co C A 3400 S Elati St Englewood Calif

Calif Passche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
Romort Mfg. Co., Oakfield. Wis.
Schrader's Son Div of Scovill Mfg Co A
470 Vanderbilt Ave Brooklyn 38 N Y
Sharpe Mfg. Co., 1224 Wall St., Los Angeles

Sharpe Mfg. Co., 1224 Wall St., Los Augeses 15. Cal.
Sherman Mfg. Co., H. B., 22 Barney St.
Battle Creek. Mich.
Sprayit—See Thomas Industries Inc Electric Sprayit Div
Superior Pneumatic & Mfg Co 4758 Warner
Rd Cleveland 25 Ohio "Bully"
Thomas Industries Inc Electric Sprayit Div
14th & Illinois Sts Sheboygan Wis "Sprayit"

Tri-Con—See Koehler Rubber & Supply Co. Tru-Flate—See Druge Bros. Mfg. Co. Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont,

NUT SOCKETS-See Sockets, Nut NUT WIRE-See Wire, Nut

NUTS

Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich (Cap) Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio (Axie cap hex screw ma-chine screw machine bolt stud and wheel) National Machine Products Co 4425 Utica Rd Utica Mich (Hexagr*) Republic Steel Co 1441 Re, iblic Bidg Cleve-land 1 Ohio nand 1 Unio Southern Screw Co 125 Barkley Rd States-ville N C

NUTS, Acorn

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Fischer Special Mfg. Co., Morgan & Dover Sts., Cincinnati, Ohio, "Turned."
GRC—See Gries Reproducer Corp
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill

Greer Stop Nut Co.

cago 12 Ili
Gries Reproducer Corp Beechwood Ave &
Second St. New Rochelle N Y "GRC"
Hilloo—See Hill Nut Co.
Hill Nut Co., 2820 W. Flournoy St., Chicago
12, Ili. "Hilloo"

Seesions Co 5000 Tiedeman Rd

12, Ill. "Hilleo."

Lamson & Sessions Co 5000 Tiedeman Rd
Cleveland 9 Ohio
National Screw & Mfg Co 2440 E 75th St
Cleveland 4 Ohio
Palnut Co 54 Glen Rd Mountainside N J
Peerless Automatic Machine Co., 1970 W.
77th St., Cleveland 2, Ohio.
Turned—See Flucher Special Mfg Co.
United Screw & Bolt Corp., 3590 W. 58th St.,
Cleveland, Ohio.

NUTS, Lock and Self-Locking

(For lock washers-See Washers, Lock)

Accurate Products Inc 135 N Spring St Accurate Products ind 135 N Spring St Indianapolis Ind Allen Mfg Co 138 Sheldon St Hartford 2 Conn "Allenut" Anco—See Automatic Nut Corp. Automatic Nut Corp 18th & Willow Sts Lebanon Pa "Anco" Banc-Lok—See Boots Aircraft Nut Corp Boots Aircraft Nut Corp Nowton Turnpike Norwalk Conn "Hek-Lok" "Prilok" "Plate-Lok" "Paper_Lok" (Self. Jocking)

Norwalk Conn "Hek-Lok" "Trilok" "Plate-Lok" "Banc-Lok" (Self-locking) Boss Boit & Nut Co., 3403 W. 47th St., Chicago 32. III. C-W-See Canady-Wiley Mfg Co Canady-Wiley Mfg Co P O Box 693 Hunting-ton Park Calif "C-W" (Safety ring) Carr Fastener Corp 31 Ames St Cambridge Mass

Mass
Champ-Items Inc 6191 Maple Ave St Louis
14 Mo "Champloc"
Delron Co 5224 Southern Ave South Gate
Calif "Dura-Loc" (Self-locking high temperature for manifolds superchargers etc)
Drake—See National Screw & Mfg Co
Dura-Loc—See Delron Co
Eaton Mfg. Co. (Reliance Spring Washer
Div.), Massilion. Ohio.
Elastic Stop Nut Corp. of America, 2330
Vauxhail Rd., Union, N. J. "Esna." (Self-locking.)

Esna-See Elastic Stop Nut Corp. of Amer-

Everlock—See Thompson-Bremer & Co Flexioc—See Standard Pressed Steel C Everlock—See Thompson-Bremer & Co Flexioc—See Standard Pressed Steel Co. GRC—See Gries Reproducer Corp Greer Stop Nut Co 2622 W Flournoy St Chi-cago 12 Ili Gries Reproducer Corp Beechwood Rd & Second St New Rochelle N Y "GRC" (Ny-

lon ins insert)
Nut Co South Whitley Ind "Gripco

Grip Nut Co South Whitley Ind "Gripco HI-Nut".

Gripco HI-Nut—See Grip Nut Co Hex-Lok—See Boots Aircraft Nut Corp Hillco—See Hill Nut Co.

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. "Hillco."

Huglock—See National Machine Products Co also National Screw & Mfg Co Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio

-See Shakeproof Div of Illinois Tool

LoKuts—See Shakeproof Div of Illinois Tool Works
M-F-See MacLean-Fogg Lock Nut Co
MacLean-Fogg Lock Nut Co 5535 N Wolcott
Ave Chicago 40 Ill "M-F"
Marsden—See National Machine Products
Co.; National Screw & Mfg Co also Russell, Burdsall & Ward Bolt & Nut Co
National Machine Products Co 44225 Utica
Rd Utica Mich "Huglock" & "Marsden"
National Screw & Mfg, Co., 2440 E. 75th St.,
Cleveland 4, Ohlo. "Drake," "Marsden,"
"Huglock"
Nylok Corp E 611 Industrial Ave Paramus

Nylok Corp E 611 Industrial Ave Paramus N J (Licensees)

N J (Licensees)
ylok—See Nylok Corp; Russell Burdsall
Ward Bolt & Nut Co: Townsend Co
-M—See Waterbury Pressed Metal Co
alnut Co 84 Glen Rd Mountainside N J Palnut

Palnut Co 54 Glen Rd Mountainesse (Locking)
Plate-Lok—See Boots Aircraft Nut Corp
Prestole Corp 1351 Miami St Toledo 5 Ohio
Republic Steel Corp Republic Bidg Cleveland
1 Ohio "Republic Nylok" (Licensors)
Russell, Burdsall & Ward Bolt & Nut Co.
Port Chester, N. Y. "Maraden," "Tri-Slot,"
"Nylok" (Licensees)
SKF Industries, Inc., Front St. & Eric Ave.
Philadelphia 32, Pa. (Lock.)
Security Locknut Corp 1800 N 15th Ave Melrose Park III
Shakeproof Div of Illinois Tool Works St
Charles Rd Elgin III "LoKuts"
Santh Chester Corp Southeo Div 228 Indus-

Shakeproof Div of Illinois Tool Works St.
Charles Rd Elgin III "LoKuts"
South Chester Corp Southco Div 228 Industrial Highway Lester Pa
Speed Nuts—See Tinnerman Products. Inc.
Standard Locknut & Lockwasher Co 2250
Valley Ave Indianapolis 18 Ind (For ball and roller bearings)
Standard Pressed Steel Co P O Box 295
Jenkintown Pa "Flexico" (Self-locking)
Thompson-Bremer & Co 225 N La Salle St.
Chicago 1 III "Everlock"
Tinnerman Products Inc 8700 Brookpark Rd
Cleveland Ohio "Speed Nuts" (Self locking)
Townsend Co New Brighton Pa "Nylok" (Licensees)

Townsend Co New Brighton Pa "Nylok" (Licensees)
Trilok—See Boots Aircraft Nut Corp
Tri-Slot—See Russell, Burdsall & Ward Bolt & Nut Co.
Truarc—See Waldes Kohinoor Inc
United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass "V-Lock-Teenut"
United Screw & Bolt Corp., 3590 W. 58th St..
Cleveland, Ohlo.
V-Lock-Teenut—See United-Carr Fastener
Corp.

V-Lock-Teenut—See United-Carr Fastener Corp Waldes Kohinoor Inc 47-16 Austel PI Long Island City 1 N Y "Truarc" (Self-locking) Waterbury Pressed Metal Co 300 Chase Ave Waterbury Con "P-M" Whittet-Higgins Co., P. O. Box 1613, Providence 1, R. I. (Lock, for ball and roller bearings.)

NUTS. Welding

Buffalo Bolt Co Div of Buffalo-Eclipse Corp 101 East Ave North Tonawanda N Y "Circle B" Circle B-See Buffalo Bolt Co Midland-Ross Corp Weld Nut Div 6660 Mt Elliott Ave Detroit 11 Mich National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohlo

NUTS, Wing

Allmetal Screw Products Co \$21 Stewart
Ave Garden City N Y (Stainless steel)
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y
Attwood Brass Works Inc 303 Douglas St
NW Grand Rapids Mich
Autoscrew Co., 216 W, 18th St., New York,
N, Y.

N. Y. Billings & Spencer Co., 1 Laurel St., Hart-ford 1, Conn. Central Screw Co., 2501 S. Shields Ave., Chicago 9, Ill.

Clark Bros Bolt Co Canal St Milidale 1 Conn Continental Screw. Co 100 Mt Pleasant St New Bedford Mass "Holtite" Dorman Products Inc 1004 Sycamore St Cin-cinati 2 Ohio Fischer Special Mfg Co Morgan & Dover Sts Cincinnati 6 Ohio (Aluminum and bronze) Greer Stop Nut Co 2622 W Flournoy St Chi-cago 12 Ill cago 12 Ill Gries Reproducer Corp 780 E 133rd St N Y 54 N Y

Gries Reproducer Corp 780 E 13rd St N Y 54 N Y 54 N Y Hercules Fastener Corp 2722 N Clyboura Ave Chicago 14 III "Sturdi-Bolt" Hilloo—See Hill Nut Co. Hill Nut Co., 2620 W. Flournoy St., Chicago 12, III. "Hilleo." Holtite—See Continental Screw Co. Keystone Forging Co., Northumberland, Pa. Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio National Screw & Mg Co 2440 E 75th St Cleveland 4 Ohio Palnut Co 54 Glen Rd Mountainside N J Parker-Kalon Div Great American Transportation Corp Clifton N J Reed & Prince Mg. Co., 1 Duncan Ave., Worcester 1, Mass. Sterling Bolt Co 253 W Erie St Chicago 16 III

Sturdi-Bolt—See Hercules Fastener Corp United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.

falo 7, N. Y.

ODOMETERS—See Meters or Odometers, Distance Recording

OIL ADDITIVES-See Additives, Oil and Lubricant

OIL COOLERS, Engine-See Regulators, Temperature

OIL COOLERS, Transmission—See Coolers, Oli (Transmission)

OIL CUPS-See Cups, Oil

OIL FILTERS—See Filters, Oil (For Attaching to Engines); Separators, Chip; Strainers,

IL GAGES—See Gages, Oil Pressure; also Gages, Oil Level

OIL AND GREASE ABSORBENTS (Floor)— See Absorbents, Oil & Grease (Floor)

OIL GUNS-See Lubricators, Hand

OIL HOLE COVERS-See Covers, Oil Hole

OIL LEVEL CONTROLS-See Controls. OII

OIL LEVEL SIGNALS—See Signals, Oil Level

OIL LINE TUBING—See Tubing, Oil and Gasoline Line

OIL PANS-See Pans, Engine

OIL PURIFIERS-See Filters, Oil (For Attaching to Engines)

OIL RECTIFIERS—See Filters, Oil (For Attaching to Engines)

IL RETAINING RINGS & SEALS — See Rings & Seals, Oli & Grease Retaining; also Washers, Felt

OIL STRAINERS—See Strainers

TEMPERATURE INDICATING GAGES
-See Gages, Oil Temperature Indicating

TESTING INSTRUMENTS-See Viscoelmeters

OILS, Lubricating

Sun Oil Co 1608 Walnut St Philadelphia 3 Pa

OILERS, Sight Feed

Gits Bros Mfg Co 1846 Kilbourn Ave Chicago

ILS, CUTTING — See Compounds, Cutting

OILS, PENETRATING—See Compounds, Rust Preventing and Removing

OILY WASTE CANS-See Cans, Oily Waste

OPENERS, Bus Door

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind

South Bend 20 Ind Cleveland—See H K Porter Co Consolidated Metal Products Corp 413 N Pearl St Albany N Y (Pneumatic, electric

Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio (Manual)

Midland-Ross Corp Owosso Div 490 S Chest-nut St Owosso Mich (Air and electro-pneumatic)

NP—See National Pneumatic Co
National Pneumatic Co 125 Amory St Boston
19 Mass "NP"

19 Mass "NP" lorter Co H K Forge & Fittings Div Cleve-land Forge Works 3200 E 79th St Cleve-land 4 Ohio "Cleveland"

OPTICAL PROJECTORS-See Projectors, Op-

ORNAMENTS, Radiator and Hood (See also Monograms, Initials and Emblems, Ornamental)

Aico-See American Insulator Corp American Insulator Corp., New Freedom, Pa. American Insulator Corp., New Freedom, Pa.
"Aico"
Fortune Mfg Co &1 E 24th St Chicago 16 Ill
"Gleam" (Hood)
Fox Co., 3400 Beekman St., Cincinnati 23,
Ohlo.
Gem Mfg Co 2535 S State St Chicago 16 Ill
Gleam—See Fortune Mfg Co
International Mfg Co 2512 Washington St
Roxbury 19 Mass "Rayline" (For Chevrolet cars)
Perfection Automotive Products Corp 925 W
Elizabeth St Detroit 1 Mich
Rayline—See International Mfg Co

OVEN TRUCKS-See Trucks, Oven

OVENS, Brake Lining Bonding

Huppert Co H K 6830 Cottage Grove Ave Chicago 37 lll (Electric) Lapeer Mfg Co 3056 Davison Rd Lapeer Mich

OVENS, Core Baking

Coleman—See Foundry Equipment Co Continental Industrial Engineers Inc 176 W Adams St Chicago 3 III Drying Systems Co 1810½ Foster Ave., Chicago 40, III. "Dry-Sys." Dry Sys-See Drying Systems Co Foundry Equipment Co., 1831 Columbus Rd., Cleveland 13, Ohlo. "Coleman." Gas Appliance Service Inc 1940 W Balmoral

Cleveland 13, Ohlo. "Coleman."
Gas Appliance Service Inc 1940 W Balmoral Ave Chicago 40 Ill
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohlo.
Induction Heating Corp., 181 Wythe Ave., Brooklyn 11, N. T.
K & B—See Kirk & Blum Mfg Co
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohlo "K & B"
Mahon Co R C 6565 E 8 Mile Rd Detroit 34
Milch
Ranschoff Inc N 5th at Ford Blvd Hamilton

phoff Inc N 5th at Ford Blvd Hamilton

Ransonon He 4 Vol Ohio Ross Engrg Div Midland-Ross Corp J O 444 Madison Ave New York 22 N Y Sly Mfg Co W W 4706 Train Ave Cleveland

Steiner-Ives Co Springfield Rd Union N J Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

OVENS, Enameling and Lacquering

Ace—See Acme Conveyor & Oven Co Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich "Ace" (Infra-red) Ajax Electrothermic Corp., Ajax Park, Tren-ton, N. J. "Ajax-Northrup." Binks Mfg Co 3114 Carroll Ave Chicago 12 Ill (Portable) Burdett Mfg Co 4920 S Monitor St Chicago

Burdett Mfg Co 4920 S Monitor St Chicago 38 III
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio Continental Industrial Engineers, Inc., 176 W. Adams St., Chicago 3, III. Cooley Electric Mfg Corp 38 S Shelby St Indianapolis 7 Ind Enameling)
De Vilbiss Co 300 Fhilips Ave Toledo 1 Ohio DeVilbiss Metal Fabricators Co 17900 Ryan Rd Detroit 12 Mich Dry Clime Lamp Corp 410 Mill St Greensburg Ind "Dry Quick".
Drying Systems Co 1810½ Foster Ave Chicago 40 III "Dry-Sys"
Dry Quick—See Dry Clime Lamp Corp Dry-Sys—See Drying Systems, Inc.
Durabake—See Fostoria Pressed Steel Corp Festoria Pressed Steel Corp Fostoria Pressed Steel Corp Fostoria Pressed Steel Corp Fostoria Pressed Steel Corp Fostoria Chicago 40 Balmoral Ave

fra-red) Gas Appliant Chicago III Appliance Service 1940 W Balmoral Ave

Chicago III
Jensen Inc 9331 Freeland St Detroit 28
Mich (Infra red portable and stationary)
K & B.—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg. Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind

Mahon Co R C 6565 E 8 Mile Rd Detroit 14 Mich Rockwell Co W S 200 Ellot St Fairfield Conn Ross Engrg Div Midland-Ross Corp J O 444 Madison Ave New York 22 N Y Sly Mfg Co W W 4706 Train Ave Cleveland

Ohio Steiner-Ives Co Springfield Rd Union N J Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill (Portable infra-red)
Young Bros Co 1831 Columbus Rd Cleveland
13 Ohio

OVENS, Molded Products

(For brake lining, armature baking, etc.)

ctc.)

Continental Industrial Engineers Inc 176 W
Adams St Chicago 3 III
Kirk & Bium Mig Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Mahon Co R C 6565 E 8 Mile Rd Detroit 34 Mich
Ross Engrg Div Midland-Ross Corp J O 444 Madison Ave New York 22 N Y
Steiner-Ives Co Springfield Rd Union N J
Young & Bertke Co 212 Buck St Cincinnati 22 Ohio
Young Bros Co 1821 Columbus Dd Cincinnati

oung Bros Co 1831 Columbus Rd Cleveland 13 Ohio

OVERHEAD CONVEYORS - See Conveyors, Overhead; also Systems, Overhead Carrying OVERLOAD RELAYS-See Relays, Overload

OXYGEN GAS-See inders and Tanks) -See Gas, Oxygen (lin Cyl-

PACKING, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. Alabestos—See Consolidated Packing & Supply Co. Anchor Packing Co., 401 N. Broad St., Phila-

Anchor Facking Co., 401 N. Broud St., Frina-delphia 8, Pa.
Asbestopak—See Felt Products Mfg. Co.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago I, Ill. "Aztec," "Tuftex." Atlas Asbestos Co 469 Walnut St. North

Atlas Asbestos Co 469 Wainut St North Wales Pa (Twisted valve stem)
Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Aztec—See Asbestos Textile Co.
Colt's Plastics Co 17 Van Dyke Ave Hartford 15 Conn "Vulcabeston"

Consolidated Packing & Sup-

ply Co Consolidated Packing & Supply Co 37-39

Murray St N Y 7 N Y "Wisold" "Alabestos" "Consolco"

pestos" "Consolco"
Crane Packing Co 6435 Oakton St Norton
Grove III (Water pump)
Darcoid Co., 145 Sixth Ave., New York 13,
N. Y. "Dominion," "Petrolite," "Rodtite,"
"Sovereign."

"Sovereign."

Detroit Gasket & Mfg. Co., 12640 Burt Rd.
Detroit 23. Mich. "Springrite."

Dominion—See Darcold Co.
Felt Products Mfg Co 7450 N McCormick
Blvd Skokie III "Grafe!" "Asbestopak"

Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron 17 Ohio

Fitzgerald Mfg. Co., 691 Main St., Torrington,
Conn.

Garlock Packing Co., 402 Main St., Palmyra, N. Y.

N. Y.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y "Klingtite"
"Klingerit"
Gatke Corp., 228 N. LaSaile St., Chicago 1.
III.

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. Grafel—See Felt Products Mfg. Co. Greene, Tweed & Co., North Wales, Pa. "Palmetto."

"raimetto."

Johns-Manville 22 E 40th St New York 16
N Y ("Mogul"; "Service" sheet)

Keystone Gasket Mfg Co 833 N Fourth St
Philadelphia 23 Pa

Klingerit—See Gasket Packing & Specialty
Co.

Klingtite-See Gasket Packing & Specialty

Co.

Manhattan Rubber Div. of Raybestos-Manhattan, Inc., 61 Willet St., Passaic, N. J.

Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.

Mogul—See Johns-Manville
Palmetto—See Greene-Tweed & Co.
Perfect Parts Inc 43 W 23 St N Y 10 N Y
Petrolite—See Darcold Co.

R/M—See Raybestos-Manhattan Inc Packing Div
Raybestos Div of Raybestos-Manhattan Inc

Raybestos Div of Raybestos-Manhattan Ine 75 E Main St Stratford 2 Conn

Raybestos-Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M" (Also rubber-asbestos)

Republic Rubber Div Lee Rubber & Tire
Corp Albert St Youngstown 1 Ohio
Rhopac Inc 3425 Cleveland St Skokie III
Roditte—See Darcoid Co.
Service—See Johns-Manville
Sovereign—See Darcoid Co.
Springrite—See Detroit Gasket & Mfg. Co.
Thermoid Co Whitehead Rd Trenton 6 N J
Tuftex—See Asbestos Textule Co.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York
20, N Y.
Velbestos—See Vellumoid Co.
Vellumoid Co., 54 Rockdale St., Worcester 6,
Mass. "Velbestos"; "Wirebestos" (Wire
woven).

Vellumoid Co., 14 Rockdale St., Worcester 6, Mass. "Velbestos": "Wirebestos" (Wirewoven). Vulcabeston—See Colt's Plastics Co Wirebeston—See Vellumoid Co.
Wisoid—See Consolidated Packing & Supply

PACKING, Felt

ACALINU, Felt

Acme Mfg. & Gasket Co., 738 N. 41st St.,
Philadelphia 4, Pa.

Afco—See American Felt Co.
American Felt Co., Glenville, Conn. "Afco."

Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown, Conn.

Booth Felt Co 100 Water St Brooklyn 1 N T

Brawley Felt Co T B 273 20th St Brooklyn

N Y

N Y Commonwealth Feit Co., 74 Summer St., Boston 9, Mass. "Perfection." Continental Feit Co 22 W 15th St N Y 11 N Y "Vel-Fei"

"Vel-Pel"
Feiters Co. 219 South St., Boston 11, Mass.
Feit Products Mfg Co 7450 N McCormick
Blvd Skokie Ill
Fitzgerald Mfg. Co., 691 Main St., Torrington. Conn.
Keystone Gasket Mfg. Co., 333 N. Fourth St.,
Philadelphia 23, Pa.
Perfection—See Commonwealth Felt Co.
Rhopac Inc 3425 Cleveland St Skokie Ill
Vel-Fel—See Continental Felt Co
Western Felt Works 4021 W Ogden Ave Chicago 23 Ill

PACKING, Fibrous

ACKING, Fibrous

Accopac—See Armstrong Cork Co
Acme Mfg. & Gasket Co., 728 N. 41st St.,
Philadelphia 4, Pa.
Algoo—See Auburn Mfg Co
Alox Mfg. Co., 6160 Maple Ave., St. Louis 14.
Mo. (Fibre and metal pump.)
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
Ankorite—See Anchor Packing Co.
Armstrong Cork Co Industrial Div Lancaster
Pa "Accopac" (Sheet)
Auburn Mfg. Co., Pease Ave. & Stack St.,
Middletown. Conn. "Algoo."
Cincinnati Rubber Mfg. Co., Franklin, Ave.,
"Sandow."
Darcoid Co., 145 Sixth Ave., New York 13,

"Sandow."
Darcoid Co., 145 Sixth Ave., New York 13,
N. Y "Kidskin."
Felt Products Mfg Co 7450 N McCormick
Blvd Skokie III "Karropak" "Wirepak"
Fitzgerald Mfg Co 691 Main St Torrington

Conn Conn Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa "Ray Pak" (Synthetic) Garlock Packing Co 402 Main St Palmyra N Y Greene Tweed & Co North Wales "Palmetto"

"Palmetto"
Johns-Manville Corp 22 E 40th St New York
16 N Y "Seigelite"
Karropak—See Felt Products Mfg Co
Keystone Gasket Mfg Co 833 N Fourth St
Philadelphia 23 Pa
Kidskin—See Darcoid Co
M & S—See Mitchell & Smith Inc

M & S—See Mitchell & Smith Inc
Minnesota Mining & Mfg Co 900 Fauquirer
St St Paul 6 Minn "3-M"
Mitchell & Smith Inc 9469 Copeland Ave
Detroit Mich "M & S"
Palmetto—See Greene Tweed & Co
Penn Fibre & Specialty Co 2024 E Westmoreland St Philadelphia 34 Pa
R/M—See Raybestos-Manhattan Inc
Raybestos Manhattan Inc Packing Park

Raybestos - Manhattan Inc Packing Div #1
Willet St Passaic N J R/M
Ray Pak—See Flexrock Co Packing Div Sandow—See Cincinnati Rubber Mfg Co Seigelite—See Johns-Manville Corp

Seigelite—See Johns-Manville Corp
Sure-Rite—See Warehouse Dist Co
Veilumoid Co 54 Rockdale St Worcester 6
Mass "Veibuna" "Veilumoid" "Veilutex"
Veilutex—See Veilumoid Co
Victorite—See Victor Mfg & Gasket Co
Victor Mfg & Gasket Co 5750 W Rooseveit
Rd Chicago 50 Ill "Victorite"
Wampus—See Cincinnati Rubber Mfg Co
Warehouse Distributing Co 3810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
Wirepak—See Feit Products Mfg Co

PACKING, Leather

PACKING, Leather

Acme Mfg & Gasket Co 728 N 41st St Phil
adelphia 4 Pa.
Air-Tight—See Marsh Co
Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Burgess Leather Co A E Brigham Hill Rd
Grafton Mass "Mellochrome"
Chibeco—See Chicago-Allis Corp
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 ill "Chibeco" "Reliance" "Flextan"
Chicago Rawhide Mfg Co 1201 Elston Ave
Chicago 22 Ill "Sirvis"
Excelsior Leather Washer Mfg Co 720
Chestnut St Rockford Ill "X-L"
Felt Products Mfg Co 7450 N McCormick
Blvd Skokle Ill
Fitzgerald Mfg Co 691 Main St Torrington
Conn

Conn Flextan—See Chicago-Allis Mfg Corp Garlock Packing Co 402 Main St Palmyra N Y

N Y
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Houghton & Co E F 303 W Lehigh Ave
Philadelphia 33 Pa "Vim"
International Packing Corp Lake St Bristol
N H

Co North St Barnum Court Danbury

Conn Marsh Co Chas W 32 Hudson St Muske-gon Mich "Marsh" "Thermo" "Air-Tight" Mellochrome—See A E Burgess Leather Co Pressure Seal Industries 146 Home Ave Villa

Pressure Seal Industries 146 Home Ave Villa Park III Reliance—See Chicago-Allis Mfg Corp Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del "Tannate" Sirvis—See Chicago Rawhide Mfg Co Sutherland Leather & Felt Co 743 Beaubien St Detroit Mich Tannate—See J E Rhoads & Sons Thermo—See Charles W Marsh Co Trostel Packings Ltd Albert Lake Geneva Wis (Also "O" rings) Vim—See Houghton & Co Warren Belting Co Marctic St Worcester & Mass

Mass Whiting Leather & Belting Co 9 Murray St New York 7 N Y X-L-See Excelsior Leather Washer Mfg Co

PACKING, Metallic

Acking, Metallic

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Bearium Metals Corp Mill & Commercial Sts
Rochester 14 N Y
Crane Packing Co 6435 Oakton St Morton
Grove Ill "John Crane" (Water pump)
Fel-Pro—See Felt Producta Mfg. Co.
Felt Products Mfg. Co 7450 N McCormick
Blyd Skokie Ill "Fel-Pro"
Fitzgeraki Mfg. Co., 691 Main St., Torrington, Con.
Garlock Packing Co., 462 Main St., Palmyra,
N. Y.

Grapho Products Inc P O Box 8604 Lawrence

Ind Ind
John Crane—See Crane Packing Co.
McCord Corp Riopelle at E Grand Bivd Detroit 11 Mich
Pressure Seal Industries 146 Home Ave Villa
Park III "Red Devil"
R/M—See Raybestos-Manhattan Inc Packing

Div
Raybestos-Manhattan Inc Packing Div 61
Willet St Passaic N J "R/M"
Red Devil—See Pressure Seal Industries
Sheet-Bronze Sealing Rings Co 540 S Meridian St Indianapolis 25 Ind
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York
20 NY

PACKING, PAPER-See Gaskets, Paper

PACKING, Plastic

Flexrock Co Packing Div 36th & Filbert Sta Philadelphia 4 Pa (O rings)

PACKING, Plastic Metallic

Anchor Packing Co 401 N Broad St Phila-delphia 8 Pa Felt Products Mfg Co 7450 N McCormick Blyd Skokie III "Fel-Pro" Garlock Packing Co 402 Main St Palmyra NY

NY Greene, Tweed & Co North Wales Pa "Pal-metto" Palmetto—See Greene Tweed & Co R/M—See Raybestos-Manhattan Inc Packing

Raybestos - Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"

PACKING, Rubber

Acme Mfg & Gasket Co 738 N 41st St Phila-delphia 4 Pa Anchor Packing Co 401 N Broad St Phila-delphia 8 Pa

Armstrong Cork Co Industrial Div Lancaster Fa "Armstrong's"
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Auburn Mig Co Pease Ave & Stack St Middletown Conn
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich Boston Woven Hose & Rubber Co Cambridge Mass (P O Box 1971 Boston 3 Mass)
Bowling Green Rubber Corp 4143 Monroe St Toledo 13 Ohio
Bridgeport Fabrics Inc 165 Holland Ave Bridgeport 9 Conn (Sponge)
Buckeye Rubber Products Inc 637 N Jackson St Lina Ohio

Buckeve Rubber Products Inc 637 N Jackson St Lima Ohio Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn (O rings)
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Super-Rubber"
Chesterton Co A W 64 India St Boston Mass Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Norka"
Cleveland Gasket & Mfg Co 1610 W 116th St Cieveland 2 Ohio
Cohrlastic—See Connecticut Hard Rubber Co Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohrlastic" (Silicone)
Consolidated Packing & Supply Co 37-39 Murray St N Y 7 N Y
Continental Rubber Works 1946 Liberty St Erie Pa

Erie Pa coper Mfg Co 411 S First Ave Marshall-

town Iowa Coyne & Paddock Inc 40-09 21st St Long Island City 1 L I N Y Cranz Co J M 2671 Main St Buffalo 14 N Y Darcold Co 145 Sixth Ave New York 13 N Y "Dominion"

N Y Tommon
Dominion—See Darcoid Co
Fitzgerald Mfg Co 691 Main St Torrington Conn
Garlock Packing Co 402 Main St Palmyra

Gasket Engrg Co 3125 Wyandotte St Kansas City II Mo Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y Gasket Shop 231 Ritch St San Francisco Calif "Korkpak"

Calif "Korkpak"
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St
Akron 16 Ohio
Gosben Rubber Co 609 E Iowa St Gosben
Ind (O rings gaskets etc)
Greene, Tweed & Co North Wales Pa "Pal-

Hewitt-Robins Inc 666 Glenbrook Rd Stam-

Hewitt-Rooms inc see Gienorook Ru Stamford Conn
Johnson Rubber Co Middlefield Ohlo
KM—Ree Kravex Mfg. Co.
Kevatone Gasket Mfg. Co., 833 N. Fourth
Rt. Philadelphia 22, Pa.

Kr. Philadelphia 23, Fr.
Korknak.—See Gasket Shon.
Kravex Mfg Co 634 Prospect Pl Brooklyn
N Y "KM" (Cowl gaskets) Kuehn Co N L 1053 N 4th St Milwaukee 2

Linear Inc State Rd & Levick St Philadelphia 35 Pa Marston Co I G 226 Ruggles St Boston 20

Mechanical Rubber Product Co Warwick

N Y
Melrath Sunniv & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mercer Rubber Co., Hamilton Square N J.
Minnesota Rubber & Gasket Co 2830 Woodale
Ave St Louis Park Minneapolis 16 Minn Ave St I

Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J (Gaskets) Norks—See Cincinnati Rubber Mfg Co. Ohio Rubber Co 200 Ben Hur Ave Willoughby

Oraca—See Ohio Rubber Co
Palmetto—See Greene Tweed & Co
Parker Appliance Co 17325 Euclid Ave Cleveland 12 Ohio (O rings)
Quaker Rubber Corp Comly & Milnor Sts
Philadelphia 24 Pa

R/M—See Raybestos-Manhattan Inc Pack-ing Div

Ravbestos - Manhattan Inc Packing Div 61 Willet St Passale N J "R'M" Rhopac Inc 3425 Cleveland St Skokie Ill

Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio

Rubatex Div Great American Industries Inc Bedford Va Stalwart Rubber Co 222 Northfield Rd Bedford Ohio Standard Products Co 2130 W 110th St Cleve-

land 2 Stillman Rubber Co 5811 Marilyn Ave Culver City Calif

Super-Rubber — See Chambers Gasket & Mfg Co

United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 59 III United States Rubber Co Rockefeller Cen-ter Ave of the Americas New York 20 N Y Wisconsin Gasket & Manufacturing Co 8724 N Granville Rd Granville Wis

PACKING, Rubber (Synthetic)

PACKING, Rubber (Synthetic)

Acadia Div Western Felt Works 4115 W
Ogden Ave Chicago 23 Ill ("Gaskofelt";
"Westfeltopak" Synthetic rubber coated)
Arrowhead Products Div of Federal-MogulBower Bearings Inc 11031 Shoemaker Rd
Detroit Mich (O rings)
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio
Connecticut Hard Rubber Co 407 East St
New Haven 9 Conn (Silicone)
Felt Products Mig Co 7450 N McCormick
Blvd Skokie Ill "Syntoflex"
Flexrock Co Packing Div 36th & Filbert Sts

Flexrock Co Packing Div 36th & Filbert Sta Philadelphia 4 Pa (O rings) Gaskoteit—See Acadia Div., Western Felt Works.

Works. Works. Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Vix-Syn." International Packing Corp Lake St Bristoi

on Rubber Co 111 Vine St Middlefield

Johnson Rudder Co 111 vine of annual cond Ohio Linear Inc State Rd & Levick St Philadel-phia 35 Pa (O-rings) Mechanical Rudder Products Co., Warwick,

N. X.

Minnesota Rubber Co 3060 Woodale Ave St
Louis Park Minneapolis 16 Minn "QuadRing" (O-rings)
National Seal Div Federal-Mogul-Bower
Bearings Inc Broadway at National Ave
Redwood City Calif (Silicone O-rings)
Parco—See Plastic & Rubber Products Co
Plastic & Rubber Products Co 2100 Hyde
Park Blyd Los Angeles 47 Calif "Parco"
(O-rings)

(O-rings)

Precision Rubber Products Corp 3110 Oak-ridge Drive Dayton 7 Ohio (O-rings)

Pressure Seal Industries 146 Home Ave Villa Park III

Park III
Quad-Ring—See Minnesota Rubber Co
R/M—See Raybestos-Manhattan Inc
Raybestos Div of Raybestos-Manhattan Inc
75 E Main St Stratford 2 Conn
Raybestos - Manhattan Inc Packing Div 61
Willet St Passaic N J "R/M"
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio
Standard Products Co 2130 W 110th St
Cleveland 2 Ohio
Syntofiex—See Felt Products Mfg. Co.
United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20,
N. Y.
Victor Mfg & Gasket Co 5750 W Roosevelt

N. Y. Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 III "Victoprene" (O rings) Victoprene—See Victor Mfg & Gasket Co Vix-Syn-See E. F. Houghton & Co. Warren Belting Co 31 Arctic St Worcester 8 Mass
Westfeltopak—See Acadia Div., Western

Felt Works.

PADS, Body Foundation (See also Pads, Protection [For Body Use])

(See also Pada, Protection [For Body Use])
American Felt Co., Glenville, Conn.
Barley-Earhart Corp., Portland, Mich.
Booth Felt Co 100 Water St Brooklyn 1 N Y
Burkart Mfg Co F Div of Textron Inc 4900
N Second St St Louis 7 Mo (Sisal)
Burton-Dixle Corp 2024 S Racine Ave Chicago 8 II (Sisal latex and cotton)
Felt Products Mfg Co 7450 N McCormick
Bivd Skokke III
Felters Co 210 South St Boston 11 Mass
Laflex—See Latex Fiber Industries Inc
Latex Fiber Industries, Inc., Baaver Falls,
N. L. "Lexide" "Laflex"
Lexide—See Latex Fiber Industries Inc
Rhopac Inc 3425 Cleveland St Skokle III
Stlenite—Ree John Warron Watson Co
Standard Cotton Products Co Camden at
Ossington St Filth Mich (Sole distributors
Automotive Materials Corp Fisher Bidg
Detroit Mich)
Watson Co John Warren 1924 Hunting Park

Detroit Mich) atson Co John Warren 1924 Hunting Park Ave Philadelphia 40 Pa "Silenite" estern Felt Works 4021 W Ogden Ave Chi-Western cago 23 Ill

PADS, FELT, ANTI-SQUEAK—See Lining, Body or Frame

PADS. Floor (Felt, Jute, etc.)

American Hair & Felt Co 322 Merchandise Mart Chicago 54 Ill (Felt and jute) Booth Felt Co 100 Water St Brooklyn 1 N Y Booth Felt Co 100 Water St Brooklyn A 24 (Felt)
Brawley Felt Co., T. R., 272 20th St., Brooklyn, N. Y. Burlington Mills, Inc., Burlington, Wis. Dixie Jute Bagging Co 700 Front St Norfolk 10 Va (Jute) Felters Co., 210 South St., Boston 11, Mass.

(Felt.)
Standard Cotton Products Co Camden at
Ossington St Flint Mich (Sole distributors
Automotive Materials Corp Fisher Bidg
Detroit Mich)

PADS, Insulation (Heat, Cold and Sound)

American Hair & Felt Co 322 Merchandise Mart Chicago 54 III Booth Felt Co 100 Water St Brooklyn 1 N Y Booth Feit Co 100 Water St Brooklyn 1 N Y Burnington Mills, Inc., Burnington Wis. Feit Products Mills, Inc., Burnington, Wis. Feit Products Mills, Inc., Burnington, Wis. Feit Products Mills Co 7450 N McCormick Blvd Skokie III Feiters Co 210 South St Boston 11 Mass LOF Glass Fibers Co 1810 Madison Ave Toledo Ohio 'Microlite" "Microtex" "SuperFine"
Microlite—See LOF Glass Fibers Co National Automotive Fibres Inc 1992b Hoover Ave Detroit 5 Mich Ruberoid Co 307 N Michigan Ave Chicago 1 III (Dash)
Super-Fine—See LOF Glass Fibers Co Tufflex—See Wood Conversion Co.

Super-Fine—See LOF Glass Fibers Co Tufflex—See Wood Conversion Co. Wood Conversion Co., 1981 First National Bank Bidg., St. Paul, Minn. Woodall industries, Inc., 7565 E. McNichols Rd., Detroit 34, Mich. (Dash panel.)

PADS, Pedal

(For applying to clutch, brake or ac-celerator pedals to prevent feet from slipping)

ccurate Products Inc 185 N Spring St Indianapolis Ind

Indianapolis Ind
American Automatic Devices Co Harrison
Throop & Congress Sts Chicago 7 III "King
Bee Universal" (Brake and Clutch)
American Feit Co Glenville Conn "Feitan"
Anchor Rubber Products Inc 1725 London
Rd Cleveland 12 Ohio "Steelastic"
Armor-Flex—See Doan Mfg Div
Cleveland—See H K Porter Co
Doan Mfg Div of Anchor Industries Inc 1725
London Rd Cleveland 12 Ohio "ArmorFlex"
Feltan—See American Felt Co

Flex"
Feltan—See American Felt Co
Firestone Tire & Rubber Co 1200 Firestone
Farkway Akron Ohlo
Foot's Ease—See Visionade Mfg Co
KM—See Kravex Mfg Corp
Kastar, Inc., 200 Lincoln Ave., New York 54,
N.Y.

Bee Universal-See American Auto-King

King Bee Universal—See American Automatic Devices Co matte Devices Co Kravex Mfg Corp 634 Prospect Pl Brooklyn N Y "KM" Loock & Co R J 343 N Gay St Baltimore Md Monarch Rubber Co Hartville Ohio Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."

Description of the control of the co

New Brunswick N J
Rub-Bub-See Samuel Moore & Co
Steelastic—See Anchor Rubber Products Inc
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York ter 1 20 N 20 N Y Visionade Mfg Co 200 Kosciusko St Brook-lyn 16 N Y "Foot's Ease"

PADS, Protection (For Body Use)

(Top pads, spring pads, etc.)

American Hair & Felt Co 222 Merchandise Mart Chicago 54 Ill Burkart Mgr Co F Div of Textron Inc 4900 N Second St St Louis 7 Mo (Sisal tula and

Dry Zero Corp., Merchandise Mart, Chicago

Western Felt Works 4021 W Ogden Ave Chi-cago 23 Ill "Westfelt" Westfelt—See Western Felt Works.

PADS. Seat

Allison's Co 1015 Jefferson Ave Brooklyn 21 N Y (Bamboo) Banner Mfg Co 37 Preston Court Brooklyn 34 N Y Bonded Foam Latex Inc 4501 Perkins Ave Cleveland 4 Ohio "Velv-O-Tex" "Kool Vent" (Ventilated wire)

Bostrom Mfg Co 123 W Oregon St Milwau-

kee 4 Wis Burkart Mfg Co F Div of Textron Inc 4900 N Second St St Louis 7 Mo (Sisal tula and

N Second St St Louis 7 Mo (Sisai tuna amo cotton)

Chicago Curled Hair Co 2391 S Paulina St Chicago 8 Ill "Sanaflex"

Crawford Mig Co Third & Decatur Sts Richmond 12 Va (Air-cooled)

Elasto—See Gordon Chapman Co

Ero Mig Co 714 W Monroe St Chicago 6 Ill

Fabco—See Faber Bros Inc

Farber Bros Inc 821 Linden Ave Memphis 3

Tenn "Fabco" (Air cooled spring)

Firestone Tire & Rubber Co 1200 Firestone

Parkway Akron Ohlo "Foamex" (Foam latex)

latex)

Patex

Fatex

Fatex

Formal Firestone Tire & Rubber Co

Fourier Arthur 260 Monroe Ave Memphis 1

Tenn (Coll spring)

Goodrich Co Sponge Products Div B F Howe

Ave Shelton Conn "Sponger" & "Texfoam"

Gordon Chapman Co 1720 12th St Detroit

16 Mich "Elasto"

Hinson Mfg Co Westfield Ave & Menges

St Waterloo Iowa (Fibre; also colled

spring wire)

St Waternor spring Wire)
Hite Mfg Co 1916 Dayton Blvd North Chattanooga 5 Tenn "Kent Ventilaire" (Ven-

tanooga 7 tenn Kent Venthare (Venthalated)
Kent Co R O 115 W 30th St New York 1
N Y (Venthalated wire)
Kiltie Mfg Co 5160 W Thompson St Philadelphia 31 Pa (Coll spring)
Kool Kooshion Mfg Co Dyersburg Tenn (Venthalated)

(Ventilated)
Kool Vent—See Bonded Foam Latex Inc
Master Mfg Co 426 Luckie St N W Atlanta
1 Ga (Spring coil)
Mitchell Mfg Co 1601 Ballman St Ft Smith
Ark (Ventilated)
Remco—See Reynolds Mfg Co
Reynolds Mfg Co 1419 Alamo National Bidg
San Antonio 5 Tex "Remco" (Water
cooled)
Sanaflex—Sea Chieses Court

cooled)
Sanaflex—See Chicago Curled Hair Co
Spongex—See B F Goodrich Co Sponge Prod. PAINTS, Fluorescent (Instrument

Div am—See B F Goodrich Co Sponge Prod-Texfoam—

ucts Div United States Rubber Co Rockefeller Cen-ter 1230 Ave of the Americas New York 20 N Y Velv-O-Tex—See Bonded Foam Latex Inc Zink Corp Howard Fremont Ohio (Spring)

PAINT HEATERS-See Heaters, Paint (Hot Spray)

PAINT, MASKING-See Compounds, Masking PAINT MIXERS-See Agitators, Paint PAINT SPRAYERS— Varnish and Lacquer SPRAYERS-See Sprayers, Paint,

PAINTING MACHINES - See Machines.

PAINTS, Acid-Resisting

Frost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frost's Kapak" Hock Paints Inc Box 190 Phoenixville Pa "Metalock"

"Metalock" Markal Co 3052 W Carroll Ave Chicago 12 Ill Metalock—See Hock Paints Inc Prufcoat Laboratories Inc 63 Main St Cambridge 42 Mass Quisley Co 415 Madison Ave N Y 17 N "Triple-A"

"Triple-A"
Sauereisen Cements Co Sharpsburg Sta
Pittsburgh 15 Pa
Sherwin-Williams Co 101 Prospect Ave N W

Cleveland 1 Ohio
Stonhard Co 1306 Spring Garden St Philadelphila 23 Pa
Triple-A—See Quigley Co
Vita-Var Corp 46 Albert Ave Newark N J
"Vita-Lux"

PAINTS Alkali Resisting

Markal Co 3052 W Carroll Ave Chicago 12 Ill Prufcoat Laboratories Inc 53 Main St Cam-bridge 42 Mass Quigley Co 415 Madison Ave N Y 17 N Y "Triple-A" Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohfo Vita-Var Corp 46 Albert Ave Newark N J

PAINTS. Aluminum and Bronze

Alcoa Albron—See Aluminum Co of America Aluminum Co of America 1501 Alcoa Bidg Pittsburgh 19 Pa "Alcoa Albron" (Pig-ments for aluminum paint) Aluminum Industries Inc 3870 Werk Rd Cin-cinnati 11 Ohio "Permite" Arco Co 7301 Bessemer Ave Cleveland 27

Auto Chrome-See Sheifield Bronze Paint

Auto Chrome—See Sheffield Bronze Faint Corp Battenheld Grease & Oil Corp 314s Roanoke and Kansas City 8 Okla (Aluminum) Campoeli Faint & Varnish Co Div Glidden Co 106 Gratiot St St Louis 2 Mo "Glidden Quality"

Chrombrite—See Morris Paint & Varnish Co Forbes Finishes Div Pittsburgh Plate Glass Co 2800 W 148th St Cleveland 11 Ohio (Aluminum)

(Aluminum) rospar—See Frost Paint & Oil Corp rost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frospar" (Alumi-

Minheapons to shim num)
Glidden Quality — See Campbell Paint & Varnish Co
Ilibronze—See Illinois Bronze Powder Co
Illinois Bronze Powder Co 2615 S Clark St
Chicago 16 Ill "Illbronze"
Interstate Enamel & Varnish Co 323 W 15th
St Indianapolis Ind "Realcoat"
Modene Paint Co 305 Eastern Ave Chelsea
25 Mass.

Modene Paint Co 305 Eastern Ave Chelsea 50 Mass Morris Paint & Varnish Co 1823 Washing-ton Ave St Louis 3 Mo "Chrombrite" (Aluminum) Permite—See Aluminum Industries Inc Plastic - Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohlo (Aluminum) Realcoat—See Interstate Enamel & Varnish

Co Reynolds Metals Co 3rd & Grace Sts Richmond 19 Va (Aluminum pigment powders and pastes)
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio "Auto Chrome" "Super Krome" (Aluminum)
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

Cleveland 1 Ohio Super Krome—See Sheffield Bronze Paint Corp

PAINTS, COLOR-See Colors (Paint, Pig-

Dial)

Lawter Chemicals Inc 3550 Touly Ave Chi-cago 45 Ill "Bold" "Lawter"

PAINTS, Graphite

Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J "Silica-Graphite" Silica-Graphite-See Joseph Dixon Crucible

Co Superflake—See Superior Graphite Co Superior Graphite Co 1531 First National Bank Bidg Chicago 3 Ill "Superflake" Vita-Var Corp 46 Albert Ave Newark N J "Vita-Var"

PAINTS, Heat Resisting

PAINTS, Heat Resisting
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite" (Aluminum)
Frost Paint & Oil Corp 1209 Tyler St N E
Minneapolis 13 Minn "Frost's Kapak"
Horn Co A C Products Finishes Div 10th St
& 44th Ave Long Island City 1 N Y
Markal Co 3052 W Carroll Ave Chicago 12 III
Permite—See Aluminum Industries Inc
Prufcoat Laboratories Inc 63 Main St Cambridge 42 Mass
Red Hot—See Sheffield Bronze Paint Corp
Sheffield Bronze Paint Corp 17814 Waterloo
Rd Cleveland 19 Ohio "Red Hot" (Aluminum)

num) Sherwin-Williams Co 101 Prospect Ave N W

Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohlo Speco Inc 7308 Associate Ave Cleveland 9 O "Heat-Rem"
Thermokote—See Vita-Var Corp.
Vita-Var Corp 46 Alibert Ave.. Newark, N. J. "Thermokote."

PAINTS, Rubber

Akron Paint & Varnish Co., 1390 Firestone
Parkway, Akron 1. Ohio. (Tire)
Better Monkey Grip Co 5320 Harry Hines
Blvd Dallas 22 Tex "Monkey Grip" (Tire;
sole distributors Monkey Grip Sales Co
5320 Harry Hines Blvd Dallas 22 Tex)
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind (Tire)
Century Products Co 14324 Birwood St Detroit 4 Mich
Color-Cote—See Master Co
Cooper Corp., Lima & Western Aves., Findlav, Ohio.
Durkee-Akwood Co 215 Seventh St N E

Durkee-Atwood Co 215 Seventh St N II Minneapolis 13 Minn (White and black for

Flexente—See W J Ruscoe Co Foundry Rubber Inc 1050 30th St NW Wash-ington 7 D C "Paracrete" Gold Eagle Products Co 1050 W Kinzle St Chicago 22 Ill (Tire)

PAINT. Rubber-continued

Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio (Tire) Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Black and white, for tires.) Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Re-Nu-Kote." (Tire.) Kelly-Springfield Tire Co., Cumberland, Md.

Kelly-Springfield Tire Co., Cumberland, Md. (Tire.)
Lee Rubber & Tire Corp Conshohocken Pa
M-K Ebonay—See Motor Kool Products Co
Mac's Super Glass Co., 6040 N. Figueroa St.,
Los Angeles 42, Calif. (Tire.)
Master Co 37 Preston Ct Brooklyn 24 N Y
"Color-Cote" (Black or white for tires)
Miller Rubber Co Div B F Goodrich Co 506
S Main St Akron Ohio (Tire)
Monkey Grip—See Better Monkey Grip Co
Motor Kool Products Co 505 Buttles Ave
Columbus 8 Ohio "M-K Ebonay" (Tire)
Nu-Wall—See Sod'in Corp

Columbus 8 Ohio "M-K Ebonay" (Tire)
Nu-Wall—See Sodrin Corp
Paracrete—See Foundry Rubber Inc.
Park Chemical Co 8074 Military Ave Detrote
4 Mich "Parko" (White for tires)
Patch Rubber Co P O Box 933 Akron 9 Ohio
Permatex Co., Sheepshead Bay, N. Y.
Re-Nu-Kote—See Keel & Co.
Rub-R-Pep—See Sodrin Corp
Ruscoe Co W J 482 Kenmore Blvd Akron 1
Ohio "Flexcote" (Black tire; "Ruscote"
colored tire)
Ruscote—See W J Ruscoe Co
Sodrin Corp 2748 McGee Trafficway Kansas
City Mo "Nu-Wall" (White for tires "RubR-Pep" black for tires mats etc)

City Mo "Nu-Wail" (White for tires "Rub-R-Pep" black for tires mats etc)

Stain-Ox Co., 625 E. First Ave., Roselle,

Stain-Ox Co., 625 E. First Ave., Rosene, N. J.

Steelcote Mfg. Co., 2418 Gratiot Ave., St.
Louis 3, Mo.
Tumbler Laboratories, J. A., 423 S. Hanover
St., Baltimore 1, Md. (Tire.)
V-O Mfg Co 13165 Sherman Way North
Hollywood Calif (Tire)

PAINTS, Storage Battery Terminal

Mitchell-Rand Mfg Corp 51 Murray St New York N Y "E B" "2098"

PANELS, Central Control

Panellit Inc Panalarm Div 7401 N Hamlin Ave Skokie Ill

PANELS, Fibre

PANELS, Fibre

Armstrong Cork Co Industrial Div Lancaster Pa.

Arvey Corp 6401 E Nevada Ave Detroit 34
Mich (Embossed)
Fybr-Tech—See Technical Ply-Wood Sales
Latex Fiber Industries Inc Beaver Falls
N Y "Lexide" (Rubber bonded)
Lexide—See Latex Fiber Industries, Inc.
Technical Ply-Wood Sales 6756 Crandon Ave
Chicago 48 Ill "Fybr-Tech"
Textileather Corp 667 Madison Ave Toledo 3
Ohio (Coated and embossed)
Upson Co Stevens St Lockport N Y (Embossed)
Woodall Industries, Inc., 7565 E. McNichols
Rd., Detroit 34, Mich. (Embossed and
coated.)

PANELS, Instrument

(See also Boards, Instrument) (See also Boards, instrument)
American Name Plate & Mfg. Co., 4254 W
Arthington St., Chicago 24, Ill.
Bristol & Waterbury 20 Conn
Champion Sheet Metal Co 2 Squires St Cortland N Y (To order)
Croname Inc 6217 Howard St Chicago 48 Ill
Cutler Metal Products Co., 1025 Line St.,
Camden, N. J.
Dahistrom Metallic Door Co., Special Products Div., 428 Buffalo St., Jamestown, N. Y.
Effectric Auto-Lite Co Bay Mfg Div Bay
City Mich
Electro Chemical Engraying Co 1100 Brook

Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y Fox Co., 3400 Beekman St., Cincinnati 23,

Jacobs Co., F. L., 1043 Spruce St., Detroit 1,

Mich.

& B—See Kirk & Blum Mfg Co
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohlo "K & B"
Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
York Corrugating Co Adams St & W Md
RR York Pa (Truck)

PANELS. Instrument (With Instruments PANELS and SWITCHBOARDS, Bat-Assembled)

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich K-5 Telegage—See King-Seeley Corp King-Seeley Corp. 315 S. First St., Ann Arbor, Mich. "K-8 Telegage."

Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago III Underwriters Safety Device Co 4642 N La-mon St Chicago 35 III

PANELS, Metal

Anzick Mfg Co 23675 Mound Rd Van Dyke Mich "Detroiter" (Auto body door) Cook Metal Works Inc 237 S Campbell Ave Cook Metal Works Inc 237 S Campbell Ave Mishawaka Ind (Roof) Cutier Metal Products Co., 1025 Line St., Camden, N. J. Detroiter—See Anzick Mfg Co GorDag Industries Inc 2354 Woodale Ave Minneapolis 16 Minn Hart Metal Products Corp 2323 Hammond Ave Elkhart Ind K & B—See Kirk Blum Mfg Co Kirk & Blum Mfg Co Kirk & Blum Mfg Co Gody) Metl-Tech—See Technical Ply-Wood Sales Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio (Body for trucks, buses and fire engines)

land 2 Ohio (Body for truess, Schofield Mfg Co 1140 E 222nd St Cleveland 17 Ohio (Auto body)
Technical Ply-Wood Sales 6756 Crandon Ave Chicago 45 Ill "Meti-Tech" (Body)
Wayne Foundry & Stamping Co 3100 Hubbard Ave Detroit 10 Mich
York Corrugating Co Adams St & W Md
R. R., York, Pa. (Door and roof for trucks.)

R. Panilm Metal Piden N J
Familm Metal

PANELS, Plywood

Armorply—See United States Plywood Corp Carstenite—See Technical Ply-Wood Sales Die-Tech—See Technical Ply-Wood Sales Evans Products Co 13101 Eckles Rd Plym-outh Mich

Evans Products Co 13:01 Eckles Rd Plymouth Mich
Flexwood—See United States Plywood Corp
Fybr-Tech—See Technical Ply-Wood Sales
G-P—See Georgia-Pacific Corp
Georgia-Pacific Corp Equitable Bldg Portland 4 Ore "G-P"
Harbord—See Harbor Plywood Corp
Harbor Plywood Corp Box 940 Aberdeen
Wash "Harbord" "Super-Harbord" "Harborite" (Douglas fir)
Harborite—See Harbor Plywood Corp
Haskelite Mfg Corp 701 Ann St NW Grand
Rapids 2 Mich "Hasko-Preg" (Laminated;
"Ornalite" resin-faced; "Plymeti" metalcovered; laminated plastic faced)
Hasko-Preg—See Haskelite Mfg Corp
Holo-Tech—See Technical Ply-Wood Sales
Honeycomb—See United States Plywood
Corp

Honeycomb — See United States Plywoou Corp Mesh-Tech—See Technical Ply-Wood Sales Metl-Tech—See Technical Ply-Wood Sales Metl-Lwood Corp 6755 W 65th St Chicago 38 III (Metal covered) Ornalite—See Haskelite Mfg Corp Plymetl—See Haskelite Mfg Corp Ply-Tech—See Technical Ply-Wood Sales Super-Harbord—See Harbor Plywood Corp. Technical Ply-Wood Sales 6756 Crandon Are Chicago 49 III "Fybr-Tech" (Vulcanized fibre resin glued to wood "Metl-Tech" plywood faced with aluminum steel and other metals "Carstenite" decorative veneer resin glued to Masonite "Holo-Tech" thick light-weight hollow core plywood; "Plyresin grued to masonice from the fight-weight hollow core plywood; "Ply-Tech" aircraft plywood glued with plastic resin "Die-Tech" phenolic bonded hard-wood "Mesh-Tech" perforated for air-con-

wood "Mesh-Tech" perforated for air-conditioning)
ekwood—See United States Plywood Corp
inted States Plywood Corp Weldwood
Blide 55 W 44th St New York 36 N Y
("Weldwood"; "Armorply" faced with galvaneal steel, monel or other metal: "Tekwood" faced with kraft paper; "Honeycomb" faced with plywood or metal skins;
"Flexwood" wood veneer mounted on
eloth) United

Weldwood-See United States Plywood Corp

PANELS, Upholstered

Arvey Corp 6401 E Nevada Ave Detroit 34 Mich

PANELS, Wire, for Bodies

Buffalo Wire Works Co 506 Terrace Buf-falo 2 N Y Logan Co Cabel St Louisville 6 Ky

Brandywine Fibre Pr

PANELS. Wood

Cornell Paperboard Products Co 230 N Michigan Ave Chicago 1 Ill (Wood fibre)

tery Charging

General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Hertner Electric Co., 12690 Elmwood Ave.,
Cleveland 11, Ohio.

Square D Co., 6060 Pivard St., Detroit 11, Mich. Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

PANS, Drip

(For placing under machinery) Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo. Cutler Metal Products Co., 1025 Line St., Camden, N. J. Camden, N. J.
Dover Stamping Co., 80 Federal St., Boston,
Mass.
Durlach Can & Iron Works 360 Ninth St
Brooklyn 15 N Y
K & B—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Salem Tool Co 767 S Ellsworth Ave Salem
Ohio SS—See United States Steel Products Div nited States Steel Products Div United States Steel Corp 5100 Santa Fe Ave Los Angeles 58 Calif "USS"

Anderson Co., O. L., 1847 E. Fort St., Detroit 7, Mich. Ansted Corp 1428 W Henry St Indianapolis Cutler Metal Products Co 1029 Line St Cam-den N.J. den N J
Hamilin Metal Products Co 2741 Wingate
Ave Akror 19 Ohio
K & B-See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Salem Tool Co 767 S Ellsworth Ave Salem

PANS, Storage, for Metal Parts

Bernard Franklin Co Hedley & Bath Sts Philadelphia 87 Pa Philadelphia 27 Pa
Factory Service Co., 4615 N. 21at St., Milwaukee 9, Wis. "Turner System."
K & B—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg. Co.
Kirk & Blum Mfg. Co.
Strik & Blum Mfg. Co.
Lyon Metal Products, Inc., 2931 Montgomery
St., Aurora. III.
Salem Tool Co. 767 S. Ellsworth Ave Salem
Obio. Turner System-See Factory Service Co.

PANS, TOTE-See Boxes, Tote PANTOGRAPH MACHINE - See Machines, Pantograph

PAPER, Abrasive

(See also Cloth, Abrasive) Adalox—See Behr-Manning Corp.
Aloxite—See Carborundum Co.
Behr-Manning Corp 4457 Howe St Troy N Y
"Speed-Wet" "Adalox" "Buffem" "Durite"
"Mohawk" "NoFil" "Resinized" "Tufbak" "Mohawk" "NoFil" "Resinized" "Tufbak"
(Also emery, filnt and garnet paper)
Buffem—See Behr-Manning Co
Carborundum Co Buffalo Ave Niagara Falis
N Y "Carborundum" "Aloxite"
Clovalox—See Clover Mfg Co
Clover Mfg Co 327 Main St Norwalk Conn
"Clover" & "Clovalox"
Crystal Bay—See Minnesota Mining & Mfg

Co
Dixon Inc William 32-42 E Kinney St Newark 1 N J
Durite—See Behr-Manning Corp
Mid-West Abrasive Co 510 S Washington St
Owosso Mich
Minnesota Mining & Mfg Co., 900 Bush Ave
St Paul 6 Minn "Crystal Bay" "2M"
"Minnesota" "Tri-M-Ite"
Mohawk—See Behr-Manning Corp
No-Fil—See Behr-Manning Corp
Resinized—See Behr-Manning Corp
Speed-Wet—See Behr-Manning Corp
Speed-Wet—See Behr-Manning Corp
Speed-Wet—See Behr-Manning & Mfg Co
Tri-M-ite—See Minnesota Mining & Mfg Co
Tufbak—See Behr-Manning Corp

Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del Continental-Diamond Fibre Corp Newark 10 Del "Diamond" Diamond--See Continental-Diamond Fibre Diamond—See Continental-Diamond Fibre
Corp
Franklin Fibre-Lamitex Corp., 195 E. 12th
St. Wilmington, Del.
Fyberoid—See Wilmington Fibre Specialty
Co.
Irvington Varnish & Insulator Div of Minnesota Mining & Mig Co 6 Argyle Terrace
Irvington 11 N J
Merrimac Paper Co 295 Madison Ave New
York 17 N Y National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. Ave. & "Peerless

-See National Vulcanized Fibre Co. Peerless—See National vulcamized Fibre Co., Norristown, Pa.
Taylor Fibre Co., Norristown, Pa.
Wilmington Fibre Specialty Co New Castle
Del "Fyberoid"

PAPER, Rust Inhibiting

Marvellum Co 28 Appleton St Holyoke 28

PARKERIZING—See Galvanizing, Sheradizing and Rust Proofing

PARTS, AIRCRAFT—See Blades, Aircraft; Bolts, Aircraft; Castings, Aircraft; Heaters, Aircraft; Motors, Electric [Aircraft Use]

PARTS, Air Conditioning Unit (Auto)

Controls Co of America A P Div 2450 N 32nd St Milwaukee 16 Wis "A-P" Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind (Bypass

vaives)
Tenney Engrg Inc 1090 Springfield Rd Union
N J (Colls)
Tube Manifold Corp 415 Bryant St North
Tonawanda N Y (Receivers and dryers) valves)

PARTS, Auto Body (Aluminum)

Indianapolis Power Hammer Works Inc 309 W Maryland St Indianapolis Ind

PARTS, Auto Body (Plastic)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Panels) Fibre Glass-Evercoat Co 7220 Vine St Cin-cinnati 16 Ohio (Fiberglass air scoops,

inis, stc) loided Fiber Glass Body Co 4601 Benefit Ave Ashtabula Ohio (Fiberglass body pan-els hoods doors instrument panels roof panels etc)

PARTS, Auto Body (Steel)

BEW 3055 E 12th St Los Angeles 23 Calif (Fender skirts)

Detroit Grille Mfg Co 258 E Vernor Hway Detroit 1 Mich (Fender skirts for Ford and Mercury cars)

Foxcraft Products Co P O Box 128 Huntingdon Valley Pa (Wheel shields fender skirts etc)

etc)
Indianapolis Power Hammer Works Inc 309
W Maryland St Indianapolis Ind (Hoods
fenders tops etc to order)
Perfection Automotive Products Corp 925 W
Elizabeth St Detroit 1 Mich (Fender

PARTS, Automotive Precision

Perfection Gear Co 152 St & Vincennes Ave Harvey III

PARTS, Brake

(See also Valves, Air Brake)

Accurate Products Inc 135 N Spring St Indianapolis Ind

Indianapolis Ind
Aero Mfg & Machining Co 2724 Ninth Ave
Muskegon Heights Mich (Hydraulic)
Anderson Co O L 1247 E Fort St Detroit 7
Mich (Vacuum tanks for power brakes)
Andrew Parts Mfg Co 22-70 31st St Long
Island City 6 N Y
B-K—See Bendix Products Div., Bendix
Aviation Corp.
Bendix Products Div Bendix Aviation Corp.
South Bend 20 Ind "B-K" (Hand control
for vacuum brakine)

South Bend 20 Ind "B-K" (Hand control for vacuum braking)
Bendix Westinghouse Automotive Air Brake Co 901 Cleveland Road Elyria Ohio (Air conversion kits)
Berg Mfg & Sales Co 1712 S Michigan Bivd Chicago 16 Ill
Brake Parts Specialty 1914 W Washington Bivd Los Angeles 18 Calif (Wheel cup expanders; brake cam rollers for Studebaker cars)

cara)
Brown Corp 213 Bellevue Ave Syracuse N T
Bull Dog-See Jambor Tool & Stamping Co
Chilton Metal Products Inc 300 Breed St
Chilton Wis (Tanks for power brakes)
Coni-Seal—See Signal-Stat Corp
Delco—See Moraine Products Div
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Elis Automotive Corp Box 701 Middletown

cinnati 2 Ohio
Elis Automotive Corp Box 701 Middletown
Conn (Hydraulic and mechanical; master
and wheel cylinders; also assortments of
small parts)

Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 11 Ohlo "Fawick-Girling" (Master cylinders) General Tire & Rubber Co Industrial Prod-ucts Div Wabash Ind (Hydraulic) Clinck Automotive Products Div Packer

ucts Div Wabash Ind (Hydraulic)
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J (Hydraulic)
Goshen Rubber Co 609 E lowa St toshen
Ind thydraulic cups and boots)
Hydraulic Specialties Co 819 E Ferry St
Buffalo II N Y "Hyspeco" (Hydraulic

Bufialo 11 N Y "Hyspeco" (Hydraulic pressure limiting valves)
Hyspeco—See Hydraulic Specialities Co.
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Buil Dog" (For Ford and Chevrolet cars)
Judson Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill (Hydraulic rubber)
Kelsey-Hayes Co 3600 Military Ave Detroit 33 Mich (Vacuum power brake valves and chambers)

33 Mich (Vacuum power brake valves and chambers)
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)
Lisle Corp Brake Div 805 E Main St Clarinda Iowa (Master and wheel cylinders)
Lockheed—see Wagner Electric Corp.
Lock & Co R J 343 N Gay St Baltimore Md (Cylinder cups)
Master Parts Div Airtex Products Inc Fair-field Ill (Hydraulic master and wheel cylinders)

inders)
ico—See Minnesota Automotive Inc Midland-Ross Corp Owosso Div 490 S Chest-nut St Owosso Mich (Air conversion valve

Kits)
Minnesota Automotive Inc 1101 N Front St
Mankato Minn "Mico" (Master cylinders)
Moraine Products Div General Motors Corp
1420 Wisconsin Blvd Dayton Ohio "Delco"

Mankato Minn "Mico" (Master cylinders)
Moraine Products Div General Motors Corp
1420 Wisconsin Bivd Dayton Ohio "Delco"
(Wheel and master cylinders)
Mctive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ili. "Pilot." (Hydraulic master wheel cylinder assemblies)
National—See Wheel Parts & Mfg Co
National ignition Mfg Co 521 W 23rd St New
York 11 N Y "Nimco" (Hydraulic)
Niehoff & Co., C. E., 4925 W. Lawrence Ave.,
Chicago 30, Ili. (Hydraulic)
Nimco—See National ignition Mfg, Co.
Otto Items Inc 1200 Reco Ave Kirkwood 22
Mo "Tru-Torque" (Hydraulic cups etc)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pilot—See Motive Equipment Mfrs., Inc.
Power Brake Equipment Co 1632 S E 11th
Ave Portland 14 Ore "Williams"
Preferred Electric & Wire Co Bush Terminal
Bidg No 8 Brooklyn 22 N Y
R/M—See Raybestos-Manhattan Inc
Raybestos-Manhattan Inc Equip Sales Div
Stratford Conn "R/M" (Rubber)
Signal-Stat Corp Signal-Stat Bidg 523 Kent
Ave Brooklyn 11 N Y "Coni-Seal" (Hydraulic cups)
Thermold Co Whitehead Rd Trenton 6 N J
(Dizphragms)
Tru-Torque—See Otto Items, Inc.
United Metal Craft Co 800 Lowell St Ypsilanti Mich (Power brake tanks)
United Parts Mfg Co 1256 W Van Buren St
Chicago 7 Ill (Hydraulic brake parts and
cylinders)
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
Velvac Inc 3534 W Pierce St Milwaukee 15
Wis (Vacuum power and air for trucks
and trailers; also air conversion kits)
Wagner Electric Corp 6400 Plymouth Ave
St Louis 14 Mo "Lockheed" (Master cylinders)
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" (Hydraulic)

St Louis 14 May Localists
inders)
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" (Hydraulic)
Williams—See Power Brake Equipment Co

PARTS, Bus Body (Steel)

Bath Co Cyril 22289 Aurora Rd Solon Ohio
(Roof rails and bows body posts door
frames wheelhouse angles etc)
Cleveland—See H K Porter Co
Porter Co H K Forge & Fittings Div Eveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"

PARTS, Carburetor

ARTS, Carburetor

Accurate Products Inc 135 N Spring St
Indianapolis Ind
Bendix Products Div Bendix Aviation Corp
South Bend 20 Ind
Carter Carburetor Div of ACF Industries
Inc 2840 N Spring Ave St Louis 7 Mo
Circle Z R F D #2 Promfret Center Conn
Gane Air-Flow-See Octa-Gane
Hygrade Products Div Standard Motor Products Inc 27-18 Northern Bivd Long Island
City 1 N Y
Octa Gane 603 W La Tunas Drive San

City 1 N Y
Octa Gane 603 W La Tunas Drive San
Gabriel Calif "Gane Air-Flow" (Needles)
Pacco—See Precision Automotive Components Co
Parco—See Parts Mfg Co
Parts Mfg Co 311 W 66th St New York 23
N Y "Parco"

Precision Automotive Components Co 7500 Devonshire St St Louis 19 Mo "Pacco" Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y

Simmons Mfg Co Ashland Ohio Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y PARTS, CAST PHENOLIC—See Plastice-Cast (Phenolic and Resin)

PARTS, Clutch

(See also Bearings, Clutch Throwout; Controls, Clutch (Power Operated); Corks, Brake & Clutch Insert; Disco, Clutch; Lining, Brake; Plates, Clutch Pressure; also Shafts, Transmission & Clutch)

Accurate Re-Nu Clutch Div of MarPro Inc 168 N Michigan Ave Chicago I III (Pres-sure assembly component parts) Circle Z R F D #2 Pomfret Center Conn Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio (Diaphragms levers release

Springs etc.)
Elgin Machine Works, 412 N. State St., Elgin, Ill. gin, III. Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. Lipe-Rollway Corp 806 Emerson Ave Syra-cuse 4 N Y

Merit Products Co 121 W Florence Ave Los

Angeles 3 Calif (Sleeves)
Angeles 3 Calif (Sleeves)
National—See Wheel Parts & Mfg Co
Parco—See Parts Mfg Co
Parts Mfg Co 311 W 66th St New York 23
NY "Parco"
Perfect Parts Inc 43 W 23rd St New York 10
N Y

N Y
Perfect Gear Co 152nd St & Vincennes
Ave Harvey Ill (Clutch cover assembly

parts)
Rockford Clutch Div Borg-Warner Corp 1319
18th Ave Rockford III
Wheel Parts & Mfg Co 352 Fourth Av N Y 10
N Y "National"

PARTS, Fibre

Auburn Mg. Co., Pease Ave. & Stack St.
Middletown, Ohio.
Brandywine Fibre Products Co 15th & Poplai
Sts Wilmington Del
Continental-Diamond Fibre Corp Newark 10
Del "Diamond"
Diamond—See Continental-Diamond Fibre
Corp Diamond—See Continental-Diamond—See Corp Corp Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del Hill Nut Co., 2820 W. Flournoy Ave., Chi-cago 12, Ill. National Vulcanised Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. Spaulding Fibre Co 310 Wheeler St Tona-wanda N T wanda N Y
Taylor Fibre Co Norristown Pa
Wilmington Fibre Specialty Co New Castle
Del

PARTS, Front End Suspension

Aluminum Industries inc 3670 Werk Rd Cincinnati 11 Ohio "Permite" Brown Corp 218 Bellevue Ave Syracuse N X Elgin Machine Works 413 N State St Elgin

fil
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Lion Auto Parts & Mfg. Co., 1920 S. Michigan
Ave. Chicago 16, Ill.
McQuay-Norris Mfg Co 2320 Marconi Ave St
Louis 10 Mo

McQuay-Norris Mfg Co 2320 Marconi Ave St Louis 10 Mo Master Parts Div Airtex Products Inc Fair-field III Moog Industries 6650 Easton Ave St Louis Moog In

Moog Industries 6050 Easton Ave St Louis
14 Mo
National—See Wheel Parts & Mfg Co
Neapco Products Inc South & Cross Sts
Potistown Pa
Parco—See Parts Mfg. Co.
Parts Mfg. Co. 311 W. 66th St., New York
23, N. Y. "Parco."
Permite—See Aluminum Industries Inc
Republic Engrg & Mfg Co 6565 Wells Ave
St Louis 14 Mo
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Toledo Steel Products Div Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohie
(Ball Joints etc)
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"

PARTS, Fuel Pump

Accurate Products Inc 135 N Spring St Indianapolis Ind (Push rods etc) Airtex Automotive Div Airtex Products Inc Fairfield III Alco—See Alloy Mfg Co Alloy Mfg Co 3202 S Shields Ave hicago 16 III "Alco" "Alloy" "Quality First" American Motor Products Co Fond du Lac Wis "Ampco"

Ampco—See American Motor Products Co Capac—See Wells Mfg Corp

Ampco—See American Motor Products Co
Capac—See Wells Mfg Corp
Capac—See Wells Mfg Corp
Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd Long Island
City N Y
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn, N. J.
Master Parts Div Airtex Products Inc Fairfield Ill
Mica Insulator Co.

field III
Mica Insulator Co Broadway Schenectady
N Y (Diaphragms)
National Ignition Mfg Co 521 W 23rd St New
York II N Y "Nimco"
Nimco—See National Ignition Mfg. Co.
Preferred Electric & Wire Co Bush Terminal
Eldg No 8 Brooklyn 32 N Y (Diaphragms, etc)

etc)
Quality First—See Alloy Mfg Co
Simmons Mfg. Co., Ashland, Ohio. (For
Ford, Chevrolet and Plymouth cars.)
Unifex—See United Parts Mfg Co
United Parts Mfg Co 1250 W Van Buren St
Chicago Ili "Uniflex"
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis "Capac"
Wohlert Corp 700 E Grand River Ave
Lansing 5 Mich (Rods)

PARTS, Generator

PARTS, Generator
International Products & Mfg Co 1452 S
Michigan Ave Chicago 5 III
Machined Parts Corp 6209 Hamilton Aye Detroit 2 Mich "Mapco"
Mapco—See Machined Parts Corp
National Ignition Mfg Co 521 W 23rd St New
York 11 N Y "Nimco"
Nimco—See National Ignition Mfg. Co.
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors
Vulcan Motor Products Inc 1669 Broad
St Newark 2 N J)
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 22, N. Y.
V-J Industries Inc 720 E Washington St Indianapolis Ind
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Vulcan—See Paragon Products Corp.

PARTS, Hardened and Ground

Brown Corp 213 Bellevue Ave Syracuse N Y Burgess-Norton Mfg Co 781 Peyton St Geneva Ill
Trayer Products Inc E Clinton St Elmira
N Y

PARTS, LAMINATED (PHENOLIC) - See Plastics, Laminated

PARTS, Magneto, Coil and Distributor

ARTS, Magneto, Coil and Distributor
American Hard Rubber Co Div Amerace
Corp Ace Rd Butier N J
American Motor Products Co., Fond du Lac,
Wis. "Ampco." (Distributor rotors.)
Ampco—See American Motor Products Co.
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y
D S M Electric Co 6209 John Lodge Expressway Detroit 2 Mich (Coil and distributor)
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind (Breaker
plates)

Delco-Remy Div General Motors Corp avar.
Columbus Ave Anderson Ind (Breaker plates)
Echlin Mfg Co U S Route 1 Branford Conn
(Coil and distributor)
Electric Auto-Lite Co Toledo 1 Ohio (Distributor caps and rotors)
F. & B. Mfg. Co., 4248 W. Chicago Ave.,
Chicago 51, Ill. "Filko."
Filko—See F. & B. Mfg. Co.
GP—See Guaranteed Parts Co
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J (Distributor rotors)
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N J (Nylon distributor parts)
Guaranteed Parts Co Seneca Falls N Y "GP"
Holley Carburetor Co 11955 E 9 Mile Rd
Van Dyke Mich (Caps and rotors)
Igniter Co 1635 El Camino Real Redwood
City Calif (Breaker plate stabilizing kits
for Delco-Remy distributors)
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J
Keystone Carbon Co 1935 E Olympic Blyd Los
M D Parts Mfg Co 4395 E Olympic Blyd Los

Pa
M D Parts Mfg Co 4395 E Olympic Blvd Los
Angeles Calif (Distributor caps and rotors)
Machined Parts Corn. 6209 Hamilton Ave.,
Detroit 2. Mich. "Manco."
Mapco—See Machined Parts Corp.

National—See Wheel Parts & Mfg Co National Ignition Mfg Co 521 W 23rd St New York 11 N Y "Nimco" (Coil and distribu-

rork if N I Albard to tor)

Nimco—See National Ignition Mfg. Co. P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.

Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Distributor plates etc; sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)

Parco—See Parts Mfg Co

Parts Mfg Co 311 W 66 St N Y 23 N Y "Parco" 625

"Parco"
Perfection Automotive Products Corp., 925
W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products Inc 846 S Market St Waukegan III (Distributor caps and rotors)
Sorensen Mig Co. 9 32-31 57th St Woodside
77 N Y (Distributor heads and rotors)
Specialty Insulation Mig. Co., Hoosick Falls,
N. Y. (Distributor caps.)
Super Go—See Wells Mig Corp
Tasco Products Div of Guaranteed Parts Co
Seneca Falls N Y
Tungsten Contact Mig. Co., 7311 Cottage
Ave., North Bergen, N. J. (Caps and
rotors.)

Ave., North Bergen, N. J. (Caps and rotors.)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y (Distributor)
Vulcan—See Paragon Products Corp.
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis "Wells" "Super Go" (Distributor caps and rotors)
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" (Distributor caps and

PARTS, Metallic Powder (For suppliers of powdered metal-See Metals, Powdered)

APMP—See Aluminum Co of America Aerovox Corp Crowley Dlv 1 Central Ave West Orange N J "Crolite" Aluminum Co of America 1501 Alcoa Bidg Pittsburgh 19 Pa "APMP"

Pittsburgh 19 Pa "APMP"

American Brakeblok Div American Brake
Shoe Co Maple Rd East of Crooks Rd Detroft Mich "Sintermet" (Friction material)
Bound Brook Oil-Less Bearing Co. Bound
Brook, N. J. "Powdiron." "Compo." (Powdered fron bearings, parts, etc.)
Bunting Brass & Bronze Co 716 Spencer St
Toledo 9 Ohio (Bearings and parts)
Burgess - Norton Mfg Co 731 Peyton St
Geneva III "Quall-Sint"
Chrysler Corp Amplex Dix 6501 Harper
Ave Detroit 31 Mich "Oilite" (Bearings
machine parts filter and friction material
gears cams rotors etc)

gears cams rotors etc)
rollite—See Aerovox Corp Crowley Diverroit Sintered Metals Corp 715 Sp

Detroit Sintered Metals Corp 715 Spencer St Toledo 1 Obio Dixon Sintaloy Inc 535 Hope St Stamford Conn "Sintaloy" (Bearings gears filters

contacts etc)
urrex—See Moraine Products Div., General
Motors Corn
eneral Powdered Metal Products Inc Muller
Park Norwalk Conn (Machine parts gears
cams etc and oil impregnating bearings)
ternational Powder Metallurcy Co 439 W
Main St Ridgway Pa (Bronze, Iron, brass
and steel

and steel)

Main St Ridgway Pa (Bronze, Iron, brass and steel)
International Products & Mfg Co 1452 S Michiesan Ave Chicago & III
Johnson Bronze Co 210 S Mill St New Castle Pa "Ledayoyl" (Bearings bushings etc.)
Kevstone Carbon Co 1935 State St St Marys Pa "Ledaloyl" (Bearings bushings etc.)
Ledalovl—See Johnson Bronze Co.
Mallorv & Co., P. P., 2022 E. Washington St. Indianapolis, Ind.
Metal Carbides Corp 107 E Indianola Ave Youngstown 7 Ohio "Tailde"
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Togree."

Corn. 1420 Wisconsin Bivd., Dayton, Ohio.

"Turex."

National Molded Products. Inc.. 46 S. St.
Marvs St. St. Marys. Pa. (Filters and
metallic friction materials.)

Oillite—See Chrysler Corp., Amplex Div.
Parker White-Metal Co 23rd St & Pennsylvania Ave Erie Pa.

Powdered Metal Parts Div Allied Products
Corp 456 E Cody St Northville Mich (Bearings. bushings. gears. Westers. etc.)

Corp 456 E Cody St Northville Mich (Bearings, bushings, gears, washers, etc.)
Powdfron—See Bound Brook Oil-Less Bearing Co.
Onali-Sint—See Burgess-Norton Mfc Co
R/M—See Raybestos-Manhattan Inc
Raybestos Div of Raybestos-Manhattan Inc
75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales
Division Stratford Conn "R/M"
Raybestos Manhattan Inc Wabash
Div Crawfordsville Ind "R/M"

Rocky Mountain Metals Inc 3200 Century Ave Colorado Springs Colo (Cams gears levers shock absorbers and front end sus-

pension units)
Sintaloy—See Dixon Sintaloy Inc
Sintered Metals Inc 3391A Washington St
Jamaica 30 Mass

Jamaica 39 Mass Sintermet—See American Brakeblok Div Sparta Foundry Co Div of Muskegon Piston Ring Co Sparta Mich (Iron) Stackpole Carbon Co Tannery St St Marys

Stackpole Carbon Co Tannery St St Marys
Pa
Tailde—See Metal Carbides Corp
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
United States Graphite Co., 1621 Holland
Ave., Saginaw, Mich. (Bearings, bushings
and washers.)
Victor-Peninsular Div Allied Products Corp
12677 Burt Rd Detroit 23 Mich
Wakefield Bearing Corp 29 Foundry St
Wakefield Mass
Wellman Co S K 200 Egbert Rd Bedford Ohio
Yale & Towne Mfg Co Powdered Metal Products Div Chrysler Bidg 405 Lexington Ave
N Y 17 N Y (To order)

PARTS, MOLDED (PHENOLIC)—See Plas-tics—Molded (Phenolic, Urea, Cellulose, Acetate, Polystyrene, etc.)

PARTS, Power Steering

(See also Pumps Hydraulic)

Aero Mfg & Machining Co 2724 Ninth St Muskegon Heights Mich Bendix Lakeshore Div Bendix Aviation Corp Lake Shore Drive St Joseph Mich (Hy-draulic components)

draulic components)

Brown Corp 213 Believue Ave Syracuse N Y
Chilton Metal Products Inc 200 Breed St
Chilton Wis (Tanks)
Imperial Brass Mig Co 6300 W Howard St
Chicago 31 II (Hose assemblies)
Michigan Steel Tube Products Div Standard
Tube Co 24400 Plymouth Rd Detroit 29
Mich (Tubes)
Purolator Products Inc 970 New Brunswick
Ave Rahway N J (Combination reservoir
and filter for trucks)
Vickers Inc Administrative & Energ Center

Vickers Inc Administrative & Engrg Center Detroit 32 Mich (Valves)

PARTS, PRESSED STEEL—See Stampings, Metal

PARTS. Refrigeration System (Truck and

indstrand Machine Tool Co Hydraulic Div 2210 Harrison Ave Rockford III (Drives for trucks)

PARTS, Shock Absorber

Accurate Products Inc 135 N Spring St Indianapolis Ind Van Berger & Greener Inc 1619 N Hoyne Ave Chicago 47 Ill

PARTS, Speedometer

(See also Dials; Gears and Pinions, Speedometer; also Shafting, Flexible) Hygrade Products Div Standard Motor Prod-ucts Inc 37-18 Northern Blvd Long Island City 1 N Y Preferred Electric & Wire Co Bush Ter-minal Bidg No 8 Brooklyn 32 N Y Valley Forge Products Inc \$70 19th St Brook-lyn 15 N Y

PARTS. Spring

Service Spring Co Box 638 Indianapolis 6 Ind

PARTS, Stake Body (Steel)

Cleveland—See H K Porter Co Kirk & Blum Mfg Co 3120 Forrer St Cincin-nati 9 Ohio "K & B" Porter Co H K Forge & Fittings Div Cleve-land Forge Works 3200 E 79th St Cleve-land 4 Ohio "Cleveland"

PARTS, STARTING MOTOR—See Armatures; Brushes, Generator, Horn and Starter; etc.

PARTS, Starting Motor Drive (See also Drives, Starter)

Accurate Products Inc 720 E Washington. St Indianapolis 2 Ind American Motor Products Co., Fond du Lac, Wis. "Ampco."

Wis. "Ampco."
Ampco—See American Motor Products Co.
Bendix—See Eclipse Machine Div., Bendix
Aviation Corp.
Blue Streak—See Standard Motor Products.

Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Bendix."

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Iil. "Filko."
Filko—See F. & B. Mfg. Co.
GP—See Guaranteed Parts Co.
Guaranteed Parts Co., Seneca Falls, N. Y.

International Products & Mfg Co 1452 8
Michigan Ave Chicago 6 III
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn, N. J.
Keystone Carbon Co 1935 State St St Marys
Fa

Passon & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Bolts)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Screws.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich., "Mapco."
Mapco.—See Machined Parts Corp.
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co., Bush Ter-

Preferred Electric & Wire Co., Bush Ter-minal Bidg. No. 8, Brooklyn 22, N. Y. (Springs.)
Shurhit Products Inc 845 S Market St Wau

Shurhit Products Inc \$45 S Market St Waukegan II Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Springs, etc.) United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio (Washers)

y Forge Products Inc 370 19th St Brook-15 N Y

lyn 15 N Y an Bergen & Greener Inc 1619 N Hoyne Ave Chicago 47 Ill "Van line" Fulcan—See Paragon Products Corp Vells Mig Corp 12 S Brooke St Found du Lac Wis

Lac Wis
Wickwire Spencer Steel Div of Colorado Fuel
& Iron Corp 575 Madison Ave N Y 22 N Y
(Springs, bolts and washers)

PARTS, Steering Gear

Cleveland Steel Products Corp 16025 Brook park Rd Cleveland 35 Ohio (Wheel hubs park Rd Cleveland 35 Ohlo (Wheel hubs)
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohlo (Linkages)
Wesco—See Western Automotive Co
Western Automotive Co 2300 S Parkway
Chicago 16 III "Wesco" (Bearings bushings cups sectors shafts etc)
Wohlert Corp 500 E Grand River Ave Lansing 5 Mich

PARTS, Storage Battery

Crescent Battery & Light Co 818 Camp St New Orleans 12 La Fiberglas - See Owens-Corning Fiberglas

Fibergias — See Countric Equip Co Corp.
GS—See General Scientific Equip Co Geidel Battery Mfg. Co., 3393 Bigelow Bivd. Pittsburgh 18. Pa. (Plates.)
General Scientific Equipment Co 7516 Lime-kiln Pike Philadelphia 50 Pa "GS" Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
Owens - Corning Fibergias Corp National Bank Bidg Toledo 1 Ohio "Fibergias" (Retainer mats) Retainer mats)

Price Battery Corp Grand St Hamburg Pa
Reliance Battery Products Co., 2211 S. Eighth
St., Council Bluffs, Iowa.

PARTS, Transmission

Cleveland Welding Div American Machine & Fdry Co W 117th St & Berea Rd Cleveland 11 Ohio (Rings)
Grey Rock Div of Raybestos-Manhattan Ine Manhelm Pa
Kings County Centerless Grinding Co 555
35th St Union City N J (Countershafts)
Lempco Froducts Inc 5490 Dunham Rd Bedford Ohio (Automatic)
Merit Products Co 121 W Florence Ave Los Angeles 3 Calif
Napco Industries Inc Northwestern Parts Div 834 N Seventh St Minneapolis 11 Minn Div 834 N Seventh St Minneapolis 11 Minn National Machine Works Inc 1800 S Broadway Oklahoma City 9 Okia (Ball seate)
Raybestos Div of Raybestos-Manhattan Inc 75 F Main St Stratford 2 Conn Republic Gear Co 2197 Beaufait Ave Detroit 7 Mich (Automatic)
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich Sealed Power Corp 2001 Sanford St Muskegon Heights Mich (Automatic transmission rings)
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood III (Automatic)
Velvetouch—See S K Wellman Co Wausau Motor Parts Co 1003 Harrison Blvd Wausau Wis (Rings)

Wellman Co S K 200 Egbert Rd Bedford Ohio "Velvetouch" (Disc and gaskets for auto-matic transmissions) Western Automotive Co 2300 S Parkway Chi-cago 16 III

PARTS, Truck Body (Aluminum)

ARTS, Truck Body (Aluminum)

Cook Metal Works Inc 237 S Campbell Ave
Mishawaka Ind (Roof caps for cabs rub
rails sills and roof bows)

Hill Auto Body Metal Co 700 W Sixth St
Cincinnati 3 Ohio (Turret top for truck
cabs engine hoods radiator shells etc)
Lewgust Corp 4001 Deil Ave North Bergen
N J (Prefabricated sections for truck and
trailer bodies) trailer bodies)

PARTS, Truck Body (Plastic)

General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio General Body Mig Co 713 W Pennway Kansas City Mo "Han-D-Van" (Front end sections)
Molded Fiber Glass Body Co 4601 Benefit Ave Ashtabula Ohio (Molded fibre glass)

PARTS, Truck Body (Steel)

'ART'S, Truck Body (Steel)
Anzick Auto Body Parts Co 23675 Mound Rd
Van Dyke Mich "Fit-Rite"
Bath & Co Cyril 32230 Aurora Rd Solon Ohio
(Roof rails and bows body posts door
frames wheelhouse angles etc)
Binkley Mfg Co Warrentown Mo (Roof rails
corners bows rub rails etc)
Boardman Co., 1401 S. W. 11th St., Oklahoma Citv. Okla.
Cook Metal Works Inc 237 S Campbell Ave
Mishawaka Ind (Roof caps for buses trucks
trailers and tractors)

Mishawaka Ind (Roof caps for buses trucks trailers and tractors)
Crown Steel Products Co. 1330 N Main St Orrville Ohio (Roofs hoods fenders etc.)
Cutler Metal Products Co., 1925 Line St., Camden N. J.
Fit-Rite—See Anzick Auto Body Parts Co Hart Metal Products Corp 3333 Hammond Ave Eikharf Ind (Corner posts roof bows and caps rub rails etc)
Hill Auto Body Metal Co 700 W 8th St Cincinnati 3 Ohio (Turret tops, for truck cabs, engine hoods, radiator shells, etc)
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio

nati 9 Ohio nati 9 Ohio
Lewgust Corp 4001 Dell Ave North Bergen
N J (Prefabricated sections for truck and
trailer bodies)
Metaleraft Automotive Div Inc of Metaleraft
Engrg Corp Box 386 North Side Branch

Atlanta Ga et-L-Wood Corp 6755 W 65th St Chicago

Met-L-

38 III Corp 6755 W 65th St Chicago
38 III Midwest Body & Mfg Div Electrographic
Corp S Central St Paris III
Nash Bros Co 2125 Dewey Ave Evanston III
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa (Cross sills
corner rolls liner slats lintels etc)
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio (Roof bows)
Rex Metal Paris Co 1295 W 78th St Cleveland 2 Ohio
Serwell Products Co., 6519 Euclid Ave.,
Cleveland 2 Ohio

Cleveland 3, Ohlo.

Truk-A-Door Co 23 Henry St Detroit 1 Mich (Pre-fab cross bows for open top trucks and trailers)

PARTS. Truck Body (Wood)

Avery Body Co W G 3002 N Mill St Jacks Mich (Body floors, side racks, cushic front seat assemblies, etc)

PARTS. Universal Joint.

Accurate Products Inc 135 N Spring St

Accurate Products Inc 135 N Spring Standard Products Indianapolis Ind Alco—See Alloy Mfg Co Alloy Mfg Co 207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built" American Automotive Products Co 1818 S Wabash Ave Chicago 16 Ill Elizin Machine Works, 412 N. State St., Elizin, Ill

Elgin Machine Works, the Elgin, III
Houser Engrg & Mfg Co 200 E Spring St
Bluffton Ind
Lightnin—See R. J. Loock & Co.
Loock & Co., R. J., 242 N. Gay St., Baltimore, Md. "Lightnin."
Motive Equipment Mfrs., Inc., 5253 W.
Roosevelt Rd. Chicago 56, III. "Pilot"
Motor Master Products Corp P O Box 96
Defiance Onlo

Roosevelt Rd. Cricago be, ill. Prior Motor Master Products Corp P O Box 96 Defiance Ohio Napco Industries Inc Northwestern Auto Parts Div 834 N Seventh St Minneapolis 11 Minn eance Products Inc South & Cross Sts

Neance Products Inc South & Cross St Pottstown Pa Perfect Parts Inc 43 W 23rd St NY 10 NY Pilot—See Motive Engineent Mfrs., Inc. Porte Mfr Cn 3179 Atlantic Ave Brooklyn 8 NY "Porto"

Porto—See Porte Mfg. Co.
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.
Quality Built.—See Alloy Mfg. Co.
Republic Gear Co 2197 Beaufait Ave Detroit 7 Mich
Wesco—See Western Automotive Co
Western Automotive Co 2300 S Parkway
Chicago 16 Ill "Wesco"

PARTS, Water Pump

(For Shafts-see Shafts, Water Pump)

Accurate Products Inc 135 N Spring St Indianapolis Ind

Indianapolis Ind Alloy Mfg. Co., 2207 S. Shields Ave., Chicago 16, Ill. "Quality Built." Aluminum Industries Inc 2670 Werk Rd Cin-cinati 11 Ohio "Permite" (Assemblies im-pellers packing nuts and bushings) State St. Eigin Machine WUTKS, 412 N.

Eight. He works to the state of the state of

Keystone Carbon Co 1935 State St St Marys Pa C Products Inc 2232 Alvord St Indian-L

L C Products Inc 2232 Alvord St Indianapolis 7 Ind
Lion Auto Parts & Mfg. Co., 1920 S. Michlgan Ave., Chicago 18, Ill.
McQuay-Norris Mfg. Co., 2220 Marconi St., St. Louis, Mo. (Impellers, assemblies, shafts, nuts and bushings.)
Master Parts Div Airtex Products Inc Fair-field Ill. See Wheel Parts & Mfg. Co.

Master Parts Div Airtex Products Inc Fairfield II.

National—See Wheel Parts & Mig Co
Parco—See Parts Mig Co

PARTS, Windshield Wiper

Air-Push—See Sprague Devices Inc American Muffler Co 1280 Tremont St Bos-ton 20 Mass Anco—See Anderson Co. Anderson Co 1075 Grant St Gary Ind "Anco" (Arms, blades and motors)

(Arms, blades and motors)
Balance Pressure—See Zaiger Corp
Blade-Masters—See Nemic Mfg Co
Curve-matic—See Zaiger Corp
Curve-Wipe—See Zaiger Corp
Glider—See Zaiger Corp
Nemic Mfg Co 10 Cottage Crove
Grand Rapids Mich "Blade-1
(Aids)

tage Crove St ch 'Blade-Masters (Aids)
Preferred Electric & Wire Co Bush Terminal
Bldr No & Brooklyn 32 N Y (Arms and

Bide No & Brooklyn sz Nach State Shades)
Sprague Devices Inc 500 Huron St Michigan City Ind "Air-Push" (Motors)
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. ("Trico Arctic" Blades, arms and air motors; "Trico Rainbow," "Trico Triple Action" & "Trico Cam-Omatic" blades)
Michael Instrument Mfg. Co., 33 W. 60th St.

matic" blades)
Victor Instrument Mfg. Co., 38 W. 60th St.,
New York 23, N. Y. (Blades and arms.)
Zaizer Corp 589 Essex St Lynn Mass "Curvematic" "Curve-Wips" "Gilder" (Blades;
"Balanced Pressure" arms)

PARTS and FITTINGS, Heater

B & B-See Bishop & Babcock Mfg. Co. Bishop & Babcock Mfg Co 4901 Hamilton Ave N E Cleveland 14 Ohio "B & B"

Cores)

Blackstone Corp 1111 Allen St Jamestown N Y (Cores)

Dole Valve Co 6201 Oakton St Morton Grove III (Control valves)

E. A. Laboratories, Inc., 636 Myrtle Ave., Brooklyn S. N Y Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. Fedders-Quigan Corp., 57 Tonawanda St., Buffalo 7. N V (Heater cores)

HaDees Heater Div of Gabriel Co 1911 Harrison Ave Rockford III

Loock & Co R J 243 N Gay St Baltimore Md Modine Mfg Co 1500 DeKoven Ave Racine Wis (Cores)

PARTS and FITTINGS, Heater -continued

Paragon Products Corp 140 Astor St New-ark 5 N J "Vulcan" (Valves for Ford and Mercury cars; sole distributors Vulcan Motor Products Inc 1060 Broad St Newark

Motor Products Inc 1060 Broad St Newark 2 N J)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn 22 N Y
Ranco Inc., 601 W. Fifth Ave., Columbus 1,
Ohlo. (Control valves.)
Vulcan—See Paragon Froducts Corp
Weldon Tool Co 2000 Woodhill Rd Cleveland

ito (Fuel pumps)
Radiator Co., 709 S. Marquette St.,
ne. Wis. (Heater cores.)

PASTE, Gasket Making

Cabot Inc Samuel 141 Milk St Boston 9
Mass "Plaggon"
Darex.—See Dewey & Almy Chemical Div
Dewey & Almy Chemical Div W R Grace &
Co 62 Whittemore Ave Cambridge 40 Mass
"Darex" Co to

"Darex"
Duroyd Gasket & Die Mfg Co. 1828 Amsterdam Ave New York N Y
Flexrock Co Packing Div 86th & Filbert Sts
Philadelphia 4 Pa "Plastic Gasket"
Gaskatex—See Johns-Manville Dutch Brand

Div
Gasket Goo—See Pep Mfg Co
Gasket Makers—See P O B Mfg Co
Hollingshead Corp., it. M., 840 Cooper St.,
Camden. N. J. "Whiz."
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill "Gaskatex"
Mobo—See John T. Stanley Co.
P. O. B. Mfg. Co., 32 16 Colerain Ave., Cincinnati, Ohio. "Gasket Makers."
Pep Mfg. Co., 33 W. 42nd St., New York.
N. Y. "Gasket Goo." (In tubes.)
Permatex Co 300 Broadway Huntington Station N Y "Form-A-Gasket"
Plasgon—See Samuel Cabot Inc
Plastic Gasket—See Flexrock Co., Packing
Div.

Div.
Stanley Co., John T., 642 W. 30th St., New York, N. T. "Mobo."
Sure-Rite—See Warehour / Dist Co
Warehouse Distributing Co 2810 N 19th St
Philadelphia 40 Pa "Sure-Rite"
Whiz—See R. M. Hollingshead Corp.

PASTE, MASKING-See Compounds, Masking PEDAL PADS-See Pads, Pedal

PEDALS, Accelerator

Accurate Products Inc 135 N Spring St Indianapolis Ind American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King

Bee"
Anchor Rubber Products Inc 1725 London Rd
Cleveland 12 Ohio "Steelastic"
Armor-Flex—See Doan Mfg Div
Doan Mfg Div, of Anchor Industries Inc
1725 London Rd Cleveland 12 Ohio "Armor-

Flex"
Duffy Mfg. Co., Holland, Mich.
Handes Twin-Throttle—See Manbee Equip
Div Bear Mfg Co
Houser Engrg & Mfg Co 200 E Spring St
Bluffton Ind "Lazy-Leg" (For left leg)
Kastar, Inc., 200 Lincoln Ave., New York 84,
N. Y.

King Bee-See American Automatic Devices

Co.
Lay-Leg—See Houser Engrg & Mfg Co
Laghtnin—See R. J. Loock & Co.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."

Manbee Equipment Div Bear Mfg Co P O
Box 607 Rock Island Ill "Handee TwinThrottle" (Extra)

Standard Products Co 2130 W 110th St Cleveland 2 Oblo

land 2 Ohlo Steelastic—See Anchor Rubber Products Inc HENOLIC MOLDING MATERIALS — See Plastics—Materials

PHENOLIC PARTS — See Plastics — Cast; Laminated; Molded; also Sheets, Rods, Tubes and Filaments

PICKLE CONTROL CHEMICALS—See Chemicals, Pickle Control

PICKLING ACIDS—See Acids, Pickling PICKLING MACHINES-See Machines, Pick-

PICKLING TANKS-See Tanks, Metal Pick-

PICKUP TOOLS—See Tools, Nut, Screw or Bolt Holding
PIG IRON—See Iron, Pig

PINS, King (For Truck Trailers)
Miller Industries 313 E Cortland St

PILING CONVEYORS—See Elevators, Indus-trial (Portable)

PINIONS—See Gears and Pinions PINS, CLEVIS—See Pins, Yoke

PINS, Cotter

Acco—See American Chain Div. of American Chain & Cable Co. Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel) American Chain Div of American Chain & Cable Co 454 E Princess St York Pa "Acco," "Campbell"

American Chain Div of American Chain & Cable Co 454 E Princess St York Pa "Acco," "Campbell"
American Steel Co (PO Box 230) Sixth & Spring Sts Ellwood City Pa "Kelkotters". Anti-Corrosive Metal Products Co Castletonon-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohlo.
Autoscrew Co., 216 W. 18th St., New York, N. Y. (Monel metal and stainless steel.)
Brooks & Sons Inc., M. S., Chester, Conn.
Campbell — See American Chain Div. of American Chain & Cable Co.
Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Straight and taper)
Hercules Fastener Corp 2722 N Clyboura Ave Chicago 14 Ill "Sturdi-Bolt"
Hubbard Spring Mfg. Co., M. D., 646 Central Ave., Pontiac, Mich.
Kelkotters—See American Steel Co.
Lamson & Sessions 5000 Tiedeman Rd Cleveland 9 Ohio
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohlo.
Perfect Parts Inc 43 W 23rd St N Y 10 N Y Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Sturdi-Bolt—See Hercules Fastener Corp

Ill
Sturdi-Bolt—See Hercules Fastener Corp
United Screw & Bolt Corp 3590 W 58th St
Cleveland O
W W—See Western Wire Products Co.
Western Wire Products Co 1415 S 18th St
St Louis Mo "W W" (Assortments)

Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union N J

Accurate Products Inc 185 N Spring St Indianapolis Ind Aluminum Industries Inc 3670 Werk Rd Cin-cinnati 11 Ohio "Permite" Andrew Parts Mig Co 32-70 31st St Long Island City 6 N Y Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.) Brown Corp., 213 Bellevue Ave., Syracuse. N. Y.

Brown Corp., 213 Believue Ave., Syracuse.
N. Y.
Bull Dog.—See Jambor Tool & Stamping Co.
Cleveland Cap Screw Co 2917 E 79th St
Cleveland 4 Ohio
Eligin Machine Works 412 N State St Eligin
Ill (Assemblies)
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J (Sets)
Jambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee, Wis. "Bull Dog." (For
Ford cars.)
Kings County Centerless Grinding Co 555
36th St Union City N J
McQuay-Norris Mfg. Co., 2320 Marconi Ave.,
St. Louis, Mo
Master Parts Div Airtex Products Inc Fair-

McQuay-Norris Mfg. Co., 2320 Marconi Ave.

St Louis, Mo
Master Parts Div Airtex Products Inc Fairfield III
Moog Industries Inc 6650 Easton Ave St
Louis 14 Mo
National See Wheel Parts & Mfg Co
Neapco Products Inc South & Cross Sts
Pottstown Pa
Parco—See Parts Mfg. Co.
Parts Mfg. Co., 2311 W. 68th St., New York
23, N. Y. "Parco."
Permite—See Aluminum Industries, Inc.
Shuler Axle Co., 2901 S. Second St., Louisville S, Ky.
Superior Machine Tool Co., 329 E. Firmin
St., Kokomo, Ind.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Trayer Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Trayer Products Inc Cleveland 3 Ohio
Trayer Products Inc E Clinton St Elmira
N Y "National"
Wohlert Corp., 700 E. Grand River Ave.,
Lansing 5, Mich.

Cleveland 14 Ohio "Highl
National Screw & Mfg. Co.
Cleveland 4, Ohio.
Perfect Parts Inc 43 W 23rd
Porter Co H K Forge & Fitt
land Forge Works 3200 e
land 4 Ohio "Cleveland"
Townsend Co., New Brighton
Townsend Co., See also Tubleg Cee land 40hio "Cleveland"
Townsend Co., 2012
Townsend Co.,

Miller Industries 313 E Cortland St Jackson Mich

PINS, Lock

Trayer Products Inc E Clinton St Eimira

PINS. Piston

Accuralite—See American Hammered Auto Repl Div Aluminum Industries Inc 3670 Werk Rd Cin-cinnati 11 Ohio "Permite" American Hammered Automotive Replace-ment Div of Sealed Power Corp Accuralite Div 2001 Sanford St Muskegon Mich "Accuralite

Andrew Parts Mfg Co 22-70 31st St Long Island City 6 N Y B-N Perfectlap—See Burgess-Norton Mfg.

Co.
Brown Corp., 213 Bellevue Ave., Syracuse,
N. Y.
Burgess-Norton Mfg Co 731 Peyton St
Geneva Ill "B-N Perfectiap"
Elgin Machine Works, 412 N. State St., El-

Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
Kings County Centeriess Grinding Co 555
36th St Union City N J
McQuay-Norris Mfg. Co., 2320 Marconi St.,
St. Louis, Mo.
Marquette Div Curtiss-Wright Corp 1145
Galewood Drive Cleveland 10 Ohio
Merit Products Co 121 W Figrence Ave Los
Merit Products Co 121 W Figrence Ave Los

Merit Products Co 121 W Florence Ave Los Angeles Calif Monmouth Products Co., 6545 Carnegle Ave., Cleveland 3, Ohlo.

Nylen Products Inc U S 12 Bridgman Mich OSP—See Ottawa Steel Products, Inc.

Ohlo Piston & Machining Co 5340 Hamilton Ave Cleveland 14 Ohlo Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich. "OSP."

Perfect Parts Inc 43 W 23rd St New York 10 N. Y.

N. Y.
Permite—See Aluminum Industries, Inc.
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Simplex Products Corp 3320 Kelly Ave
Cleveland Ohio
Superior—See White Machine Works.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Teleda Stall Products Div Thompson Prod-

Cleveland 17 Onio Toledo Steel Products Div Thompson Prod-ucts Inc \$402 Cedar Rd Cleveland 3 Ohio White Machine Works, 1401 Bellevue Ave., Eau Claire. Wis "Superior."

PINS, Yoke

INS, Yoke

Accurate Products Inc 135 N Spring St Indianapolis Ind Anchor—Nee Townsend Co.

Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio

Buckeye Forging Co 9217 Miles Ave Cleveland 5 Ohio

Carr Fastener Co 31 Ames St Cambridge Mass

Mass
Cleveland—See H K Porter Co
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Ferry Screw Products Inc E W 5240 Smith
Rd Cleveland 30 Ohio
Groov-Pin Corp 1125 Hendricks Causeway
Ridgeway N J

Ridgeway N J
Highland Machine Co 2215 Superior Ave
Cleveland 14 Ohio "Highlander"
National Screw & Mfg. Co., 2440 E. 75th St.,
Cleveland 4, Ohio.
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Porter Co H K Forge & Fittings Div Cleveiand Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Townsend Co., New Brighton, Fa. "Anchor."

(See also Tubing. Flexible Metallic)

AP Parts Corp., AP Bidg., 1801 Spielbusch Ave., Toledo 1, Ohio.

Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa.

Arvin Industries Inc 13th St & Big Four RR Columbus Ind (Exhaust)

De Koven Mfg Co 1201 Michigan Blvd Racine Wis

Douglass Muffier Mfg Co 5636 E Shull St Bell Gardens Calif

Everbend—See Everhot Products Co.

Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everbend." (Bendable.)

Flexonics Corp 1315 S Third Ave Maywood Ill "Rex-Tube" (Bendable)

Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich Goerlich's, 619 Smith St., Toledo 1, Ohio. Haviland Co Arnold 1008 S Jackson St Defiance Ohio

Houser Engrag & Mfg Co 200 E Spring St Biufton Ind

Hy-Power—See Lion Auto Parts & Mfg Co International Parts Corp., 11th & State Sts., Chicago 5, Ill.

Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power" McCord Corp Riopelle at E Grand Blvd De-troit 11 Mich Maremont Muffler Div of MarPro Inc Mare-mont Bidg 168 N Michigan Ave Chicago 1 Ill (Also bendable) Michigan Steel Tube Products Div Stand-ard Tube Co 24400 Plymouth Rd Detroit 29 Mich

Michigan and Tube Co 24400 Flymon.

39 Mich
Northern Tube Co Pinconning Mich
Ohio Parts Inc 307 Perry St Defiance Ohio
Porter Muffler Mfg Co 11820 W Olympic Blvd
Los Angeles 64 Calif
Powell Muffler Co 4235 W 42nd Pl Chicago
MarPro Inc 168 N

32 III
Pratt Muffler Div of MarPro Inc 168 N
Michigan Ave Chicago III
Rex-Tube—See Flexonics Corp
Riker Mfg Inc 4901 Stickney Ave Toledo 12 O

(Tail)
Ryder Mfg Co 220 N Ada St Chicago 7 Ill
Smithy's Muffler Co 1850 N Main St Los
Angeles 31 Calif
Tube Products Corp 320 N 2nd St Tipp City
Ohio "Tippecane"
Walker Mfg Co of Wis 1201 Michigan Blvd

Racine Wis Racine Wis Western Piping & Engrg Co 123 Kansas St San Francisco 3 Calif (For trucks and

PIPING, EXHAUST AND INTAKE—See Mani. PLASTICS folds, intake and Exhaust

PISTON BORING MACHINES (AUTOMATIC)
—See Machines, Piston Boring (Automatic)

PISTON CENTER DRILLING and FACING MACHINES—See Machines, Piston Center Drilling and Facing

PISTON MAKING MACHINES—See Machines, Piston Making

PISTON PINS-See Pins, Piston

PISTON RING GRINDERS — See Machines Grinding (Piston Ring)

PISTON RINGS-See Rings, Piston

PISTONS

(For piston castings-See Castings)

curalite-See American Hammered Auto

Repl Div Fairchild Engine & Airplane
Ai-Fin Div Fairchild Engine & Airplane
Corp Deer Park L I N Y (Aluminum with
bonded-in cast iron ring carriers)
Aluminum Alloys Corp 6650 Walton St Detroit 10 Mich "Ray Day"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
American Hammered Automotive Replacement Div 2001 Sanford St Muskegon Mich "Accuralite"
Arrow Head Steel Products Co. Mich "Ac-

curalite"
Arrow Head Steel Products Co Howell Mich
(Aluminum alloy Vanasil and cast iron)
Badger Mfg Co 1505 City Court Marinette
Wis (Aluminum alloy)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 25 Mich "Bohnalite"
Bohnalite—See Bohn Aluminum & Brass Corp

Conformatic-See Sterling Aluminum Prod-

Continental Motors Corp., Muskegon 82 Continental Motors Corp., Muskegon \$2
Mich.
De Luxe—See Ohio Piston & Machining Co
Diatrol—See Toledo Steel Products Div
Dualoy—See United Engine & Machine Co
Edebrock Equipment Co 4921 W Jefferson
Blvd Los Angeles 16 Calif (Oversize)
Elgin Machine Works, 412 N. State St.,
Elgin III.
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind (Aluminum and cast iron)
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
(Aluminum and cast iron)
G & E—See Gillett & Eaton Inc
Gillett & Eaton Inc Sth & Doughty Sts Lake
City Minn "G & E" (Aluminum aluminum
alloy and semi-steel)
Hy-Duty Products Corp 1801 S Hope St Los
Angeles 15 Calif (Aluminum)
Hyten—See Ohio Piston Co
Intra-Cast — See Sterling Aluminum Products Inc

ucts Inc

Local See Ohio Piston & Machining Co
Lynite—See Ohio Piston & Machining Co
McQuay-Norris Mfg. Co., 2320 Marconi St.
St. Louis, Mo.
Nylen Products Inc U S 12 Bridgman Mich
(Aluminum and gray iron)
Ohio Piston & Machining Co 5340 Hamilton
Ave Cleveland 14 Ohio ("Lo-Ex" & "Lynite" aluminum; "Hyten"; "De Luxe" cast
iron; "Strutype" steel Insert aluminum)
Permite—See Aluminum Industries Inc

Ray Day—See Aluminum Alloys Corp Sealed Power Corp 2001 Sanford St Mus-kegon Heights Mich Sily-O-Lite—See United Engine & Machine

Co.
Steel-Belted—See Thompson Products Inc
Sterling Aluminum Products Inc 2600 N
Third St St Charles Mo "Conformatic"
"Intra-Cast" "Sterling"
Strutype—See Ohio Piston & Machining Co
Superior—See White Machine Works.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio "Steel-Belted" (Aluminum alloy)
Toledo Steel Products Div Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohio
"Diatrol" "Toledo First-Line"
Triplex Corp of America P O Box 666 Pueblo
Colo (Aluminum)
Tsungani Piston Co 625 E 11th St Tacoma
2 Wash
United Engine & Machine Co 310 Preda St
San Leandro Calfi "Dualloy" & "Silv-O-Lite"
White Machine Works, 1401 Bellevue Ave. Steel-Belted-See Thompson Products Inc

Lite"
White Machine Works, 1401 Bellevue Ave.,
Eau Claire, Wis. "Superfor"
Zollner Corp Bueter Rd Fort Wayne Ind
(Aluminum alloy)

PLANER TOOLS AND ATTACHMENTS—Ser Holders, Tool; also Tools, Lathe, Planer, Holders, Tool; als Slotter and Shaper

Cast (Phenolic and Resin) Durez Plastics Hooker Electrochemical Co 1910 Walck Rd North Tonawanda N Y Kish Industries Inc 1301 N Turner St Lans-ing 6 Mich (Epoxy resin) Ren Plastics Inc 5422 S Cedar Rd Lansing 4 Mich (Resin for tooling)

Foam

Foam

Air-Thane—See Hadley Bros-Uhl Co
Armour & Co Cushioning Products Div &
Coated Abrasives Div N Benton Rd Alliance Ohio "Armofoam"
Burkart Mig Co F Div of Textron Inc 4900
N Second St St Louis 7 Mo
General Tire & Rubber Co Industrial Products Div Wabash Ind
Hadley Bros-Uhl Co 514 Calvary St St Louis
15 Mo "Air-Thane"
National Aniline Div Allied Chemical &
Dye Corp 40 Rector St New York N Y

Laminated (Phenolic, Etc.)

ABK—See American Brakeblok Div American Brakeblok Div American Brakeblok Div American Brake Shoe Co Maple Rd East of Crooks Rd Detroit Mich "ABK"
Continental-Diamond Fibre Corp Newark 10
Del "Dilecto"

Continental-Diamond Fibre Corp Newark 10
Del "Dilecto" See Continental - Diamond Fibre
Corp
Fariey & Loetscher Mfg Co Plastics Div
Dubuque Iowa "Farlite"
Farlite-See Farley & Loetscher Mfg Co
Formica Corp 4614 Spring Grove Ave Cincinnati 32 Ohio (Phenolic)
Franklin Fibre-Lamitex Corp 18th St E of
Market St Wilmington Del "Lamitex"
G E Textolite-See General Electric Co
General Electric Co Chemical Div 1 Plastice
Ave Pittsfield Mass "GE Textolite"
Kish Industries Inc 1301 N Turner St Lansing & Mich (Epoxy)
Lamitex-See Franklin Fibre-Lamitex Co.
Micarta-See Westinghouse Electric Corp
National Vulcanized Fibre Co., Maryland
Ave. & Beech St., Wilmington 99, Del.
"Phenolite"
Ohmoid-See Wilmington Fibre Specialty Co.
Panelyte Div St Regis Paper Co 150 E 42nd
St New York 17 NY
Penn Fibre & Specialty Co 2024 E Westmoreland St Philadelphia 34 Pa
Phenolite—See National Vulcanized Fibre
Co.
Soaulding Fibre Co., 310 Wheeler St., Tona-

Co.
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. "Spauldite."
Spauldite—See Spaulding Fibre Co.
Synthane Corp., Oaks. Pa.
Taylor Fibre Co., Norristown, Pa.
Westinghouse Electric Corp Micarta Div 3
Gateway Center Pittsburgh 30 Pa "Micarta" (Phenolic)
Willson Camera Co 1401 Lawrence Rd
Havertown Pa
Wilmington Fibre Specialty Co New Castle
Del "Ohmoid"

Materials (Phenolic, Urea, Cellu-lose, Acetate, Casein, Polystyrene, Nylon, etc.) (Molding powders, resins, impreg-nated fabric and paper, etc.) Ace-Hide—See American Hard Rubber Co Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif. "Toolite." (Phenolic liquid com-nound)

Alathon—See E I du Pont de Nemours & Co American Cyanamid Co Plastics & Resins Div 30 Rockefeller Plaza New York 20 N I "Beetle" (Urea-formaldehyde molding com-pound "Cymel" Melamin - formaldehyde molding compound; "Cymac" methylsty-rene molding compound) American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace-Hide" (Rub-ber base)

ber base)
Bakelite Co 30 E 42nd St New York N Y
(Phenolic, polystyrene, polyethylene, fluorothene, vinyl chioride, vinyl acetate,
vinyl butyral, polyester and epoxy resins)
Beetle—See American Cyanamid Co
Borden Chemical Co Div of Borden Co 350
Madison Ave New York 17 N Y (Vinyl
compounds)

Madison Av Butacite-See E. I. du Pont de Nemours &

Co. Calcerite—See Furane Plastics Inc Calcerite—See Furane Plastic Div 290 Celanese Corp of America Plastic Div 290 Ferry St Newark 5 N J "Lumarith" (Acetate molding compounds; "Celanese Fortice!" propionic molding compounds) Celeron—See Continental - Diamond Fibre

Corp Chemical Products Corp King Philip Rd East Providence R I "Chem-o-sol" (Vinyi plastisol)

Continental-Diamond Fibre Corp Newark 10

plastisoi)
Continental-Diamond Fibre Corp Newara av
Del "Celoron"
Cycolac—See Marbon Chemical Div Borg—
Warner Corp
Cymac—See American Cyanamid Co
Cymel—See American Cyanamid Co
Dow Chemical Co Midland Mich "Styron"
"Ethocel" "Tyril" (Polystyrene and ethylcellulose)
du Pont de Nemours & Co E I Polychemicals Dept Sales Div Wilmington 98 Del
("Lucite" acrylic resin molding powders; "Buccite" polyvinyl butyral
resin sheeting; "Alathon" polyethylene
resin molding powders; "Zytel" nylon

powders: "Butacite" polyvinyl butyral resin sheeting: "Alathon" polyethylene resin molding powders: "Zytel" nylon resin molding powders) urez Plastics Div Hooker Electrochemical Co 1910 Walck Rd North Tonawanda N Y (Phenolic molding compounds and dially phthalate)

phthalate)
Cithocel—See Dow Chemical Co.
Curane Plastics Inc 4516 Brazil St Los Angeles 39 Calif "Calcerite" & "Plaspreg"
iaran—See LOF Glass Fibers Co
EE—See General Electric Co
teneral Electric Co Chemical & Metallurgical
Div Plastics Dept 123 S Water St Decatur
Ill "GE" "Lexan" (Phenolic molding powders)

Geon—See B. F. Goodrich Chemical Co. Goodrich Chemical Co B F 3135 Euclid A: Cleveland 15. Ohlo. "Geon" (Polyvinyl.) Grex—See Polymer Chemicals Div



BURGESS-NORTON MFG. CO. 731 Peyton St. Geneva, Ill. Circle 243 on Inquiry Card for more data

PLASTICS—continued

Materials—continued Hercocel—See Hercules Powder Co

Hercocel—See Hercules Powder Co
Hercules Powder Co Cellulose Products Dept
964 Market St Wilmington 99 Del ("Hercules" Cellulose acetate, cellulose nitrate
and ethyl cellulose; "Hercocel A" cellulose
acetate molding powder; "Hercocel E"
ethyl cellulose molding powder; "Hi-fax"
ethylene polymert molding powder
Hi-fax—See Hercules Powder Co
Kish Industries Inc 1301 N Turner St Lansing 6 Mich
Kralastic—See Nausatuck Chemical Div of

ing 6 Mich
Kralastic—See Naugatuck Chemical Div of
United States Rubber Co
LOF Glass Fibers Co 1810 Madison Ave Toledo Ohio "Garan" "Vitron"
Lexan—See General Electric Co
Lucite—See E. I. du Pont de Nemours & Co.
Lumarith—See Celanese Corp of America Lumarith-Plastic Div

Lustrex—See Monsanto Chemical Co.
Marbon Chemical Div Borg-Warner Corp
Washington W Va "Cycolac" (Polymer

styrene) arvinol—See Naugatuck Chemical Div United States Rubber Co Molded Products Corp., 4533 W. Harrison St., Chicago, III

Molded Products Corp., velatics Div Spring-Chicago, Ill Monsanto Chemical Co Plastics Div Spring-field 2 Mass ("Lustrex" styrene molding compounds "Resimene" melamine mold-ing compounds "Resimene" melamine molding compounds; "Opalon" vinyl chloride com-pounds; "Monsanto" polythylene molding

compounds; "Opalon" vinyl chloride compounds; "Monsanto" polythylene molding compound)
Naugatuck Chemical Div of U S Rubber Co 523 Elm St Naugatuck Conn "Marvinol" (Polyvinyl chloride resin; "Kralastic" resin-rubber compound)
Nylasint—See Polymer Corp
Nylatron—See Polymer Corp
Opalon—See Monsanto Chemical Co Plastic
Div

Div

Pittsburgh Plate Glass Co Fibre Glass Div
1 Gateway Center Pittsburgh III Pa (Fibre
glass yarns strands and roving)
Plaskon-See Plastic & Resins Sales
Plaspreg—See Furane Plastics Inc
Plastic & Resin Sales Plastic & Coal Chemicals Div Allied Chemical Corp 40 Rector
St New York 6 N Y "Plaskon"
Playielas—See Röhn & Hass Co.

St New York 6 N Y "Plaskon"
Plexiglas—See Röhm & Haas Co.
Polymer Chemicals Div W R Grace & Co
225 Allwood Rd Clifton N J "Grex"
(Polyethylene resin)
Polymer Corp 2120 Fairmont Ave Reading
Pa "Nylasint" & "Nylatron" (Nylon pow-

der)
Ren Plastics Inc 5422 S Cedar Rd Lansing 7
Mich (Epoxy tooling compound)
Resimen—See Monsanto Chemical Co.,
Plastics Div
Resinox—See Monsanto Chemical Co., Plastics Div

Resinox—See Monsanto Chemical Co. Plastics The Rezolin Inc 1651 18th St Santa Monica Calif "Rezolin Toolplastik" (Cast phenoic epoxy resin for metal forming tools) Rogers Corp Plast Corp Rogers Corp

Tyril-See Dow Chemical Co. U S Royalite-See United States Rubber Co United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "U S Rovalite" (Vinvl chloride)

Vitron-See LOF Glass Fibers Co Zytel-See E I du Pont de Nemours & Co

Molded (Phenolic, Urea, Cellulose Acetate, Polystyrene, etc.)

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 III (Synthetic resin) Admiral Corp Molded Products Div P O Box 338 West Chicago III (Phenolic urea and reinforced fiberglass to order)

Alco-See American Insulator Corp American Insulator Corp New Freedom Pa "Alco"

Amos Molded Plastics Div Amos-Thompson Co., 211 Ward St., Edinburg, Ind. (Cellu-lose-acetate, polystyrene, polyethylene, acrylic, etc.)

rmored Plastics Co Div of Globe-Wernicke Industries Inc Lint & Dura Aves Toledo 12 Ohio (Fiber glass reinforced to order)

Auburn Button Works Inc 48 Canoga St Auburn N Y Bakelite Corp., 30 E. 42nd St., New York 17,

N. Y.
Bangor Plastics Inc Bangor Mich
Brilhart Plastics Corp Old Country Rd
Mineola N Y

Mineola N Y
Brown Rubber Co Union St & Concord Rd
Lafayette Ind (Vinyl and urethane foam)
Cambridge-Franciste
Cambridge Ohto
Celoron—See Continental - Diamond Fibre

Corp
Chicago Molded Products Corp 1020 N Kolmar Ave Chicago 51 Ill (Custom molders)
Colt's Plastics Co 17 Van Dyke Ave Hart-

ford 15 Conn Continental-Diamond Fibre Corp Newark 10

Continental-Diamond Fibre Corp Newark 10 Del "Celoron"
Continental Plastics Corp 2934 W Lake St Chicago 12 III
Crane Packing Co 6435 Oakton St Morton Grove III "John Crane" (Teflon)
Davies Molding Co Harry 1428 N Wells St Chicago 10 III (Handles knobs and controls)
Dimco-Gray Co 207 E Sixth St Dayton 2 Ohio Durez Plastics Div Hooker Electrochemical Co 1910 Walck Rd North Tonawanda N Y (Phenolic)

(Pheno (Phenoiic)
Electric Auto-Lite Co Toledo 1 Ohio
Enrup—See United States Rubber Co
Erie Resistor Corp 644 W 12th St Erie Pa
"Plexicon" & "Silvertex"
Felsenthal & Sons Inc G 3500 N Kedzie Ave
Chicago 18 Ill (Custom molders of thermo-

Chicago 18 III (Custom molders of thermoplastic acrylic polyethylene nylon acetate butyrate etc)
Formica Corp 4614 Spring Grove Ave Cincinnati 32 Ohio (Phenolic)
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Bakelite)
G-E—See General Electric Co
GRC—See Gries Reproducer Corp
Geauga Industries Co Old State Rd Middle-field Ohio
General Electric Co Chemical & Metallurgical

field Ohio
General Electric Co Chemical & Metallurgical
Div Plastics Dept 182 8 Water St Decatur III "G-E"

catur III "G-E" eneral Industries Co., Olive St., Elyria

General Industries Co., Olive St., Elyria.
Ohlo.
General Tire & Rubber Co Industrial Products Div Wabash Ind "Syloy" (Fiberglass)
Gries Reproducer Corp Beechwood Ave &
Second St New Rochelle N Y "GRC"
(Thermoplastic and nylon)
Grote Mfg Co Lafayette & Grandview Aves
Bellevue Ky
Gulliksen Mfg Co Wm M Newton Lower
Falls 62 Mass (Phenolic, ures, melamine)
Innerial Molded Products Corp., 2925 W.
Harrison St. Chicaso, Ill.
Inland Mfg Div General Motors Corp 2727
Inland Ave Dayton Ohio
Insurok-See Richardson Co
John Crane—See Crane Packing Co
Kish Industries Inc 1301 N Turner St LansIng 6 Mich
Kurz-Kasch Inc 1415 S Broadway Dayton
I Ohlo (Thermo-setting)
Lincolm Molded Plastics Inc Circleville Ohio
MacDonald Mfg Co 550 Green St New Baltimore Mich (Bushings gaskets gears knobs
arm rests lenses dials etc)
Metal Specialty Co., Este Ave. & B & O.
R. R., Cincinnati 32, Ohlo. (Polystyrene
nylon cellulose acetate, etc.)
Mic—See Molded Insulation Co
Modern Industrial Plastics Inc 3337 N Dixie
Dr Dayton 14 Ohio

nylon cellulose acetate, etc.)

Mic—See Molded Insulation Co
Modern Industrial Plastics Inc 3337 N Dixle
Dr Dayton 14 Ohio
Moldarta—See Westinghouse Electric Corp
Molded Insulation Co 335 E Price St Philadelphia 44 Pa "Mic"
National Vulcanized Fibre Co Maryland Ave
& Beech St Wilmington 99 Del
Norton Laboratories Inc 520 Mill St Locknort N v (Dials knobs etc.)
Northern Industrial Chemical Co 7-11 Elkins
St South Boston 27 Mass
Panelyte Div St Regis Paper Co 150 E 42nd
St N Y 17 N Y (Polystyrene, acyrilics,
polyethylene, etc.)
Plasticite Corp 327 Rider Ave N Y 51 N Y
(Cellulose acetate polystyrene polyethylene
to order)
Piexicon—See Eric Resistor Corp
Quinn-Rerry Corp 2601 W 12th St Eric Pa
(Nylon cellulose acetate butyrate polystyrene
nolyethylene, etc.)
Renaud Plastics Inc 5422 S Cedar St Lansing
Mich
Pichardeon Co 2667 Lake St Melrose Park III

Richardson Co 2667 Lake St Melrose Park III "Insurok"

Sawyer Co A J East Aurora N Y Silvertex-See Erie Resistor Corp

Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill (Acrylic, nylon and polyethylene)

Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts Trenton 4 N J

Superior Plastics Inc 426 N Oakley Blvd Chi-cago 12 Ill "Superion" (Cellulose acetate butyrate vinylite ethylcellulose polystyrene methyl methacrylate polyvinyl chloride ny-lon and polystyrene)

ion and polystyrene)
Superlon—See Superior Plastics Inc
Syloy—See General Tire & Rubber Co
United States Rubber Co Rockefeller Center
1230 Ave of the Americas N Y 20 N Y
"Enrup" & "U S Royalite"
Wade Electric Products Co 211 N Jacobs St
Sturgis Mich
Western Control Corn. 2529 S 37

Sturgis Mich Vestern Control Corp 2533 S West St Wi-chita Kans (Knobs washers L'ackets nuts

Vestinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa "Moldarta" (Pheno-

odall Industries Inc 7565 E McNichols Rd

Sheets, Rods, Tubes and Filaments

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill (Synthetic resin sheets)
Anchor Plastics Co 36-36 36th St Long Island City 6 NY

land City 6 NY
Auburn Button Works Inc 48 Canoga St Auburn N Y (Elastomeric vinyls butyrate
shapes and polystyrene sheets)
Bakelite Co 30 E 42nd St New York 17 N Y
(Vinyl chloride-acetate calendered film and

sheeting)

sheeting)
Cadoo—See Cadillac Plastic & Chemical Co
Cadillac Plastic & Chemical Co 15111 Second
Ave Detroit 3 Mich "Cadco" (Cast acrylic
rods and tubes; cast styrene; polyethylene;
butyrate sheeting, tubing and rods)
Campoo a Div of Chicago Molded Products
Corp 2727 N Normandy Ave Chicago 35 Ill
"Campoo" & "Registrite" (Rubber modifled styrene sheet; "Campoolite" tripolymer styrene sheet; "Campoo" cellulose
acetate butyrate sheet and film, nolyethy-

mer styrene sneet; Campconte tripolymer styrene sheet; Campco' cellulose acetate butyrate sheet and film, polyethylene sheet and film, polyethylene sheet and film)
Celanese Corp of America Plastic Bidg 290
Ferry St Newark 5 N J "Fortifiex" (Polyethylene sheeting and film)
Chemstrand Corp \$50 5th Ave N Y 1 N Y (Nylon yarn for tire cord seat belts tarpaulins and air springs)
Continental Diamond Fibre Corp Newark 10
Del "Dilecto"
Crane Packing Co 6435 Oakton St Morton
Grove Ill "John Crane" (Rod and tubes)
Dilecto—See Continental - Diamond Fibre
Corp

Grove III "John Crane" (Rod and tubes) Dilecto—See Continental - Diamond Fibre Our Pont de Nemours & Co E I Film Dept Wilmington 98 Del "Mylar" (Polyester film) du Pont de Nemours & Co E I Polyechem-leals Div Sales Div Wilmington 98 Del "Tynex" (Nylon monofilaments) du Pont de Nemours & Co E I Textile Fibers Dept Wilmington 98 Del "Orlon" Electric Auto-Lite Co Bay Mfg Div Bay City Mich Enrup—See United States Rubber Co Felsenthal & Sons Inc 3500 N Kedzie Ave Chicago 18 II (Custom fabricators of thermoplastic acrylic vinyls acetate polyethylene sheets etc)
Firestone Plastics Co P O Box 650 Pottstown Pa "Velon" (Filament and yarn)
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa (Sheets rods and tubes)
Fluoroftex—See Resistofiex Corp
Formica Corp 4614 Spring Grove Ave Cincinnati 33 Ohlo
Fortifiex—See Celanese Corp of America
Franklin Fibre-Lamitex Corp 18th St E of

Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del "Lamitex" Market St (Laminated)

eneral Electric Co Chemical & Metal-lurgical Div Laminated Products Dept Coshocton Ohlo "Textolite" (Laminated phenolic sheets rods and tubes)

Gilman Bros Co Gilman Conn "Gilco" (Polystyrene sheet) Grote Mfg Co Lafayette & Grandview Aves Bellevue Ky

Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton Ohio Insurok—See Richardson Co

John Crane-See Crane Packing Co Lamicoid-See Mica Insulator Co. Lamitex-See Franklin Fibre-Lamitex Corp.

Lumarith-See Celanese Corp of America Marvibond—See Naugatuck Chemical Div Micarta—See Westinghouse Electric Corp. Mica Insulator Co Broadway Schenectady N Y "Lamicold" (Laminated phenolic)

Midlon-See Midwest Plastic Products Co Midwest Plastic Products Co 1801 Chicago Rd Chicago Heights III "Midlon" (Cellu-lose acetate cellulose acetate butyrate sty-rene and polyethylene sheeting) Minnesota Mining & Mfg Co 900 Bush Ave PLATES, Floor (Truck and Bus) St Paul 6 Minn "Scotchply" (Reinforced A W-See Alan Wood Steel Co sheets)

Monsanto Chemical Co Plastics field 2 Mass ("Ultron" polyvinyl chloride film and sheeting "Saflex" vinyl butyral

Mylar-See E I du Pont de Nemours & Co

Mylar-See E I du Pont de Nemours & Co Film Dept
National Plastic Products Co Odenton Md
"Saran" (Filament for automobile seat covers and upholstery)
National Vulcanized Fibre Co Maryland
Ave & Beech St Wilmington 99 Del
"Phenolite" (Laminated phenolic; "National" nylon rod)
Naugatuck Chemical Div of U S Rubber Co
523 Elm St Naugatuck Conn "Marvibond"
(Metal clad resin laminated sheets)
Nixon Nitration Works Nixon N J (Cellulose
acetate cellulose nitrate cellulose acetate
butyrate and ethyl cellulose rods and
tubes rigid vinyl sheets)
Ohmoid—See Wilmington Fibre Specialty
Co.

Co.
Orlon-See E I du Pont de Nemours & Co
O'Sullivan Rubber Corp Valley Pike Winchester Va "Sullvac" (Thermoplastic
sheeting: "Sullvyne" sun visor plastic
sheeting; "Sullvyne-Clad" vinyl plastic
laminated to steel, aluminum or mag-

nesium)
Panelyte Div St Regis Paper Co 150 E 42nd
St N Y 17 N Y (Laminated phenolic)
Penn Fibre & Specialty Co 2024 E Westmoreland St Philadelphia 34 Pa
Phenolite—See National Vulcanized Fibre

Co.
Polymer Corp 2120 Fairmont Ave Reading
Pa "Polypenco" (Nylon and teflon)
Registrite—See Campco a Div of Chicago
Molded Products Corp
Resistoflex Corp Woodland Ave Roseland
N J "Fluoroflex-T" & "Fluoroflex-C"
Richardson Co 2667 Lake St Melrose Park
Ill "Insurok" (Laminated sheets rods and
tubos) tubes)

Ryerson & Son Inc Joseph T 16th & Rock-well Sts Chicago III "Ryertex" (Lami-

Ryerson & Son Inc Joseph T 16th & Rock-well Sts Chicago Ill "Ryertex" (Laminated and polyvinyl chloride)
Ryertex—See Joseph T Ryerson & Son Inc Saflex—See Monsanto Chemical Co Saran—See National Plastic Products Co Scotchply—See Minnesota Mining & Mfg Co Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. "Spauldite."
Spauldite—See Spaulding Fibre Co. Sullvac—See O'Sullivan Rubber Corp Sullvan—See O'Sullivan Rubber Corp Sullvyne—See O'Sullivan Rubber Corp Synthane Corp., Oaks, Pa. (Laminated phenolic.)

Sullvyne-Clad—See O'Sullivan Rubber Corp Synthane Corp., Oaks, Pa. (Laminated phenolic.)

Taylor Fibre Co., Norristown, Pa.

Textollite—See General Electric Co Tynex—See E I du Pont de Nemours & Co US Royalite—See United States Rubber Co United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Enrup" & "US Royalite" Vigt Mig Corp 100 Fernwood Ave Rochester 21 N Y

Wastinghouse Electric Corp Micarta Div 3

Vastinghouse Electric Corp Micarta Div 3 Cateway Center Pittsburgh 30 Pa "Mi-curta"

mington Fibre Specialty Co New Castle

Sheets, Transparent

Ero Mfg. Co., 714 W. Monroe St., Chicago.

Lucolite-See Lushan Co

Lucolite—See Lushan Co
Lushan Co 144 Moody St Waltham 54 Mass
"Lucolite" "Regalite"
Plexislas—See Röhm & Haas Co.
Regalite—See Lushan Co
Röhm & Haas Co., 222 W. Washington Sq.,
Philadelphia 5 Pa "Plexiglas" (Cast
acrylic)

PLASTIC FILLERS for Body Panels Fenders Etc—See Fillers, Plastic and Metallic (For Body Panels Fenders Etc)

PLASTIC MOLDING MACHINERY — See Presses, Plastic Molding

PLASTIC SEAT COVER AND UPHOLSTERY MATERIAL—See Fabric, Plastic (For Tops Upholstery and Seat Covers)

PLASTIC TESTING MACHINES—See Ma-chines Testing (Plastic)

PLATES, CLUTCH-See Discs Clutch

PLATES, Clutch Pressure

Accurate Re-Nu Clutch Div of MarPro Inc 168 N Michigan Ave Chicago 1 Ill Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill

A W-See Alan Wood Steel Co Alan Wood Steel Co Conshohocken Pa "A W" Alumaiun-See American Abrasive Metais

Co
American Abrasive Metals Co 460 Coit St
Irvington 11 N J "Alumalun" "Feralun"
Eastern Stainless Steel Corp P O Box 1975
Baltimore 3 Md (Stainless steel)
Feralun—See American Abrasive metals Co
Great Lakes Steel Corp Stran-Steel Div
Ecorse Detroit 29 Mich "Stran-Steel"

(Steel)
Inland Steel Co 30 W Monroe St Chicago
3 Ill "Inland 4-Way" (Steel)
Jones & Laughlin Steel Corp 3 Gateway
Center Pittsburgh 30 Pa (Steel)
Reynolds Metals Co 3rd & Grace Sts Richmond 19 Va
Stran-Steel—See Great Lakes Steel Corp
Stran-Steel Div

PLATES, Name (Metal, Plastic, Etc.) Acme Metal Etching Co., 4857 St. Aubin Ave., Detroit 7, Mich. (Etched and litho-graphed metal.)

Acroetch—See Acromark Co Acrofibe—See Acromark Co

Acrolog—See Acromark Co Acromark Co., \$ Morrell St., Elizabeth 4, N. J. "Acroetch" (Etched metal; "Acro-loy" cast metal; "Acroplac" plastic; "Acro-fibe" fibre)

Acroplac—See Acromark Co.
Adams Co S G 920 Olive St St Louis 1 Mc
(Metal)
American Name Plate & Mfg. Co., 4254 W.
Arthington St., Chicago 24, Ill.
Benmatt Organization inc 3447 E 15th St
Los Angeles 23 Calif
Croname Inc 6217 Howard St Chicago 48

Ill
Douglas Co 620 12th Ave Minneapolis 4 Minn
(Reflective sheeting)
Electric Auto-Lite Co Toledo 1 Ohio
Electric Chemicai Engraving Co 1100 Brook
Ave N Y 56 N Y (Metal)

Ave N Y 58 N Y (Metal) tched Products Corp 39-01 Queens Blvd Long Island City 4 N Y (Aluminum) ox Co., 3400 Beekman St., Cinctinati 23, Ohio, "Pridemarks." (Metal, die cast aud Ohio. "I plastic.)

plastic.)
Gits Moiding Corp 4600 W Huron St Chicago 44 Ill (Plastic)
Hanson Co., C. H., 303 W. Erle St., Chicago Ill (Metal.)
LaFrance Precision Casting Co., 29th & McKean Sts., Philadelphia, Pa., (Chrome.)
Los Angeles Stamp & Stationery Co., 1500 S. Los Angeles St., Los Angeles 15, Cal. "Mar King."
Mar-King.—See Los Angeles Stamp & Stationery Co.

"Mar King-See Los Angeles Standard King-See Los Angeles Standard Co. Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh 13, Pa.

Pittsburgh 13, Pa. Mfg. Co., 2021 W. Fulton

Pittsburgh 13, Pa.

Metal Decorating & Mfg. Co., 2021 W. Fulton St., Chicago 12, Ill.

Miller Dial & Name Piate Co 4400 N Temple City Blvd El Monte Calif (Metal)

Norgren-Stemac Inc 1277 S Cherokee St Denver 23 Colo "Stemac" (Metal)

Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis (Etched, lithographed and embossed metal)

Pridemarks—See Fox Co.

R-Ad—See Ross-Adseal Inc

Robbins Co Brooke & Maple Sts Attleboro Mass

obolins to browne was a find an apolis 2 oss-Alseal Inc 728 Lord St Indianapolis 2 Ind "R-Ad" (Metal; sole distributors, Ryan Sales Engrg Co 7545 Lyndon Ave Detroit 28 Mich)

Standard Products Co 2130 W 110th St Cleve-land 2 Ohio Stemac—See Norgren-Stemac Inc Superior Seal & Stamp Co 1401 Vermont Ave Detroit 18 Mich Superior Steel Stamp Co., 113 E. St. Clair Ave., Cleveland 14, Ohio. (Engraved plas-tic.)

Ward's Name Plates 8504 Lyndon Ave De-troit 38 Mich Willson Camera Co 1401 Lawrence Rd Havertown Pa (Plastie)

PLATES, Step

Croname Inc 6217 Howard St Chicago 48 Ill (Scull) Duffy Mfg Co Holland Mich Hamlin Metal Products Co 2741 Wingate Ave Akron 19 Ohio Moore & Co., Samuel, Mantua, Ohio. "Rub-Bub."

Bub

Ohio Rubber Co 300 Ben Hur Ave Willoughby Onio Rubber Co Sub Ben Aur Ave Windugno;
Ohio "Orco" (Rubber)
Orco—See Ohio Rubber Co
Rub-Bub—See Samuel Moore & Co
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Scuff)

PLATES. Surface and Base

Lake Shore Inc Iron Mountain Mich

PLATES, Wearing

Ohio Knife Co Cincinnati 23 Ohio

PLATFORMS, Lift Truck

Barrett-Cravens Co 630 Dundee Rd North-

Barrett-Cravens Co 650 Dundes Rd North-brook III Coison Corp., Elyria, Ohio. Elweil-Parker Electric Co 4205 St Clair Ave Cleveland I Ohio Exceisior Plimptruck Co., 796 Atlantic St.,

Stamford Conn "Excelsior" "Hercules"
Factory Service Co., 4815 N. Zist St., Milwaukee 9, Wis. "Turner System."
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa

St Philadelphia 18 Fa
Hercules—See Excelsior Plimptruck Co
Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co 1083 Erie Cliff
St Cleveland 7 Ohio "Hitco"
Hyster Co 2980 N E Clackamas St Portland

Ore

8 Ore Lanco—See Lansing Co Lansing Co 603 N Cedar St Lansing 3 Mich "Lanco" Lanco Tranco" Walnut St Watertown Mass "Weld-Master" Steal Co

"Lanco"

Lewis-Shepard Products Ine 1050 Walnut St
Watertown Mass "Weld-Master"

Nesteel—See Powell Pressed Steel Co
Orangeville Mfg Co Orangeville Pa
Powell Pressed Steel Co Erie St Hubbard
Ohio "Nesteel"

Raymond Corp 151 Madison St Greene N Y
Republic Steel Corp Pressed Steel Div 6100
Turner System—See Factory Service Co.
Weld-Bilt—See West Bend Equipment Corp.
WeldMaster—See Lewis-Shepard Products,
Inc.

West Bend Equipment Corp., 216 S St., West Bend, Wis. "Weld-Bilt.

PLATING, Cadmium-Nickel

Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich

PLATING, Chromium

Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich

PLOWS, Snow

(For attaching to trucks)

(For attaching to trucks)
Aristocrat—See Truck Engrg Co
Arps Corp 1920 Harrison St New Holstein
Wis "Blackhawk"
Blackhawk—See Flink Co
Blackhawk—See Arps Corp
Bros Inc 1057 10th Ave S E Minneapolis 14
Minn "Sno-Flyr"
Burch Corp Thoman St Crestline Ohio
"Ross"

Eshelman Co Cheston L 109 Light St Balti-more 2 Md Flink Co 502 N Vermillion St Streator III "Baker Flink"

"Baker Flink"
Frink Sno-Plows, Inc., Clayton, Thousand
Islands, N. Y. (Eastern United States.)
Gledhill Road Mchy Co S State Rd Galion

Gledhill Road Mchy Co S State Rd Galion Ohio
Good Roads Machinery Corp., Minerva, Ohio, Gravely Tractors Inc Dunbar W Va
Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co 1083 Eric Clift
St Cleveland 7 Ohio "Hitco"
International Equipment Div Morrison Railway Supply Corp P O Box 185 Sta F Buffalo N Y (Sole distributors, Jack P Hennessy Sales Co Englewood N J)
Meyer Products Inc 3599 E 82nd St Cleveland 5 Ohio
Nermco—See New England Road Mchy Co
New England Road Machinery Co 801 E 6th
St Boston Mass "Nermco"
Root Spring Scraper Co., 527 W. North St.,
Kalamazoo 11. Mich.
Ross—See Burch Corp
Scheneker Iron Works Inc 350 Sycamore St
Buffalo 4 N Y
Scranton Rd Cleveland 13 Ohio "Scranton
Snodozer"

GLOBE LOADING LIFTS

Oil-hydraulic Loading Lifts-Dock Leveling Ramp-to speed truck loading oper-

GLOBE HOIST COMPANY

Philadelphia . Des Moines . Long Beach, Cal. Circle 244 on Inquiry Card for more data

PLOWS, Snow-continued

Sno-Flyr—See Bros Inc Truck Engrg Co 3200 E Pontiac St Fort Wayne 4 Ind "Aristocrat" Western Snowplow Div Douglas Motors Corp 1234 N 62nd St Milwaukee 13 Wis

PLUGS, Core Hole and Expansion

PLUGS, Core Hole and Expansion
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y (Expansion)
Brewer-Titchener Corp., 115 Pt. Watson St.
Corliand, N. Y. (Expansion.)
Diamond G—See Geo K Garrett Co
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Expansion.)
Eagle Brand—See U. S. Tool & Mfg. Co.
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 39 Pa "Diamond G"
Hubbard Spring Mfg. Co., M. D., 646 Central Ave., Pontiac, Mich. "Weich." (Core
hole.)
Kickhaefer Mfg Co 903 S Second St Milwau-

tral Ave., Pontiae, Mich. "Welch." (Core hole.)

Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis

Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Expansion)

Lightnin—See R. J. Loock & Co.

Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."

Master Products Co 6400 Park Ave S E Cleveland 5 Ohio

Perfect Parts Inc 43 W 23rd St New York N Y 10 (Expansion)

Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.

Press Work Inc Lead Alloy Products Div 2100 Roselawn Ave Detroit 4 Mich (Expansion)

sion)
Raymond Mfg Div Associated Spring Corp
226 S Center St Corry Pa (Expansion)
U S Tool & Mfg Co 1832 N Sheffield Ave
Chicago III "Eagle Brand" (Expansion)
Welch—See M. D. Hubbard Spring Mfg. Co.
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis (Expansion)

PLUGS. Crankcase Drain

Accurate Products Inc 135 N Spring St Indianapolis Ind Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio Hill Nut Co 2620 W Flourney St Chicago 12 Ill Houser Engage & West Control of the Control of 6191 Maple Ave., St. POINTS, Contact (Ignition)

Ill er Engng. & Mfg. Co., Bluffton, Ind. He

Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)
Imco-See Inter-Continent Mfg. Co.
Inter-Continent Mfg. Co. 117 E 13th St. Chicago S III "Imco"
Johns Mfg. Co. 670 Bound Brook Rd Middlesex N J. "Magna-Power"
Magna-Power-See Johns Mfg. Co.
Magnetic Drain Plug. Co. 1000 N. Main St.
Wellington Ohio (Aiso threaded Dryseal)
Perfect Parts Inc 43 W 23rd St. N Y. 10 N Y.
Taylor & Boggis Fdry 1261 Babbitt Rd Cleveland Ohio
Tourek Mfg. Co. J. 1901 S. Kilbourn Ave Chicago 23 III.
U. S. Plug. & Fitting. Co. 1000 N. Main St.

cago 23 III
J S Piug & Fitting Co 1000 N Main St
Wellington Ohio (Also threaded dryseal)
neversal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa. (Oversize.) Uni

PLUGS, Drain (Magnetic)

Lisle Corp., 809 E. Main St., Clarinda, Iowa. Pipe Plugs Inc Wallington Ohio Taylor & Boggis Fdry 1261 Babbitt Rd Cleve-land Ohio

PLUGS, EXPANSION-See Plugs, Core Hele and Expansion

PLUGS, LAMP-See Connectors, Lamp (Elec-tric)

PLUGS, Pipe

National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio Set Screw & Mfg Co 16 Main St Bartlett III

PLUGS, Spark

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Aldor-See A. L. Doering Mfg. Co. Almquist Engrg Co Milford Pa "Spark-O-Matic"

Matic"
Auburn Spark Piug Co., Tork St., Auburn,
N. T.
Auto-Lite—See Electric Auto-Lite Co
B G Corp 321 Broad Ave Ridgefield N J
Blue Crown Spark Piug Corp P O Box 96
Deflance Ohlo
Bowers Battery & Spark Piug Co., Reading,

Champion Spark Plug Co 900 Upton Ave Toledo 1 Ohio

Continental Mfg Corp 10411 W Washington Bivd Culver City Calif "Life-Time" Defiance Spark Plug Co 323 20th St Toledo Ohio

Doering Mfg Corp A L Station Plaza Bay-side L I N Y "Aldor" "Doering" Electric Auto-Lite Co Toledo 1 Ohio "Autolite

lite"

Bive Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Triple-Fire" Firestone Tire & Rubber Co 1200 Firestone Parkway Akron 17 Ohio Filnt—See F A Luthy Co Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J Gold Bond—See Trojan Products Co Gold Medal—See Trojan Products Co Hastings Mfg Co N Hanover St Hastings Mich.

Hastings Mig Co N Hanover St Hastings Mich.
Karlife—See Trojan Products Ce.
Leonard Spark Plug Co 148 Summit St Newark 3 N J
Life-Time—See Continental Mig Corp
Luthy Co., F. A., 302 Cooper St., Jackson, Mich. "Flint," "Luthy."
Mallory Electric Corp 12:16 Cloverdale Ave Detroit 4 Mich Motor King—See Trojan Products Co.
Multi-Fire—See Trojan Products Co.
Multi-Fire—See Trojan Products Co.
Power—See Trojan Products Co.
Power—See Trojan Products Co.
Power—See Trojan Products Co.
Copark-O-Matic—See Almquist Engrg Co Super-Trojan—See Trojan Products Co
Triple-Fire—See Engine Accessories Mig Co
Trojan Products Co 109 N Union St Gallon
Ohio "Gold Bond" "Power" "Trojan"
"Gold Medal" "United" "National" "Karlife" "Motor King" "Pharis" "SuperTrojan" "Multi-Fire"
Tungsten Bjork Plug Mig., Tungsten Bidg.,

Tungsten Spark Plug Mfg., Tungsten I 1716 S. Michigan Ave., Chicago 16, Ill. United—See Trojan Products Co.

PLUGS, TESTING (Adjustable) Moeller Mfg Co 2401 Durand Ave Racine Wis

PLYWOOD-See Panels, Plywood

APW—See American Platinum Works.
American Motor Products Co., Fond du Lac,
Wis. "Ampco."
American Platinum Works, N.J.R.R. Ave.
at Oliver St., Newark 5, N. J. "APW."
Ampco—See American Motor Products Cp.
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y
Auto-Lite—See Electric Auto-Lite Co
Blue Streak—See Standard Motor Preducts,
Inc.

Inc.
D-54—See P R Mallory & Co
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Lite"

Lite"

Elkonium—See P R Mallory & Co
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago Si., Ill. "Filko."

Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.

Filko—See F. & B. Mfg. Co.

Freedco Products Inc 36-08 33rd St Long Island City 6 N Y

GP—See Guaranteed Parts Co

Glipak Automotive Products

Auto Parts Inc Roselle N J

Guaranteed Parts Co., Seneca Falls, N. Y.

"GP."

Holley Carburetor Co. 11955 In Nic. 2007

Guarantsed Parts Co., Seneca Falls, N. Y.

Holley Carburetor Co 11955 E Nine Mile Rd
Van Dyke Mich
K-W-See Stan-Test Corp.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn, N. J.

M D Parts Mfg Co 4395 E Olympic Bivd Lor
Angeles Calif
Machined Parts Corp., 6209 Hamilton Ave.,
Detroit 2, Mich. "Mapco."

Mallory & Co P R 3029 E Washington St
Indianapolis 6 Ind "Elkonium" & "D-54"
Mallory Electric Corp 12416 Cloverdale Ave
Detroit 4 Mich
Mapco—See Machined Parts Corp.
National—See Wheel Parts & Mfg Co
National—See Wheel Parts & Mfg Co
National Ignition Mfg Co 521 W 23rd St New

Presses, Powdered Metal
POWDERD METAL SINTERING FUR.
NACES—See Furnaces, Sintering (Powdered Metal)
POWER CONVERTER AXLES—See Axies,
Power Converter
Dividers, Power (Rear Axie)
Power TAKE-OFFS—See Take-Offs, Power
POWER UNITS, Diesel
Allis-Chalmers Mfg Co Engine Material
Handling Div 1135 S 70th St Milwaukes 1

National Ignition Mfg Co 521 W 23rd St New York N Y "Nimeo"

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. Nimco-See National Ignition Mfg. Co.

P & D Mfg Co., 1902 Steinway St., Long Island City, L. I., N. Y. Paragon Products Corp 140 Astor St New-ark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St., Newark 2 N J)

Preferred Electric & Wire Co., Bush Ter-minal Bldg. No. 8, Brooklyn 32, N. Y. Shurhit Products Inc 846 S Market St Wau-kegan Ili Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y Speer Carbon Co., St. Marys, Pa. Springfield Electrical Specialties, Inc., 120

ringfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y. "Superpoint

point."
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak"
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Super Go-See Wells Mfg. Corp.
Superpoint—See Springfield Electrical Specialties. Inc.

Super Gontsee Wells and Corp.

Superpoint—See Springfield Electrical Specialties, Inc.

Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y

Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.

Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

Vulcan—See Paragon Products Corp.

Wells Mfg Corp 12 S Brooke St Fond du Lac Wis "Super Go" "Wells"

Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National"

Wilco—See H. A. Wilson Co.

Wilson Co H A 2655 U S Route 22 Union N J "Wilco"

POLISHING COMPOUNDS—See Compounds, Rubbing and Polishing (Paint Shop); also Compounds, Buffing and Polishing (Metal)

POLISHING FELT-See Felt, Polishing and

POLISHING MACHINES—See Machines, Buffing and Polishing; also Machines, Grind-ing and Polishing

POLISHING ISHING and BUFFING WHEELS—See neels, Buffing and Polishing

PORCELAIN, SPARK PLUG-See Insulators, Spark Plug

PORTABLE TOOL BALANCERS—See Balancers, Portable Tool

POSITIONERS, Welding

Aronson Machine Co., Arcade N Y
C F—See Culien-Friestedt Co
Culien-Friestedt Co
1300 S Kilbourn Ave
Chicago 23 Ill "C B"
Grayson Tool Co 1412 W Second St Hastings Neb
Harnischfeger Corp Milwaukee 46 Wis "P
& H"
Morton Mig Co Broadway & Hoyt St Mus-

kegon Heights, Mich
P & H.—Harnischfeger Corp
Rexarc—See Sight Feed Generator Co
Sciaky Bros Inc 4915 W 67th St Chicago 38

Sight Feed Generator Co West Alexandria Ohio "Rexard" Werthington Corp Harrison N J (Motor operated)

POTS, ANNEALING AND CASE-HARDEN-ING—See Boxes and Pots, Annealing and Case-Hardening

POTS, SOLDER MELTING-See Furnaces, Soldering

POWDERED METALS-See Metals, Powdered OWDERED METAL MACHINES - See Presses, Powdered Metal

Allis-Chalmers Mfg Co Engine Mater Handling Div 1135 S 70th St Milwaukee

Handling Div 1135 S 70th St Milwaukee 1 Wis
M-M—See Minneapolis-Moline Co
Minneapolis-Moline Co Box 1050 Minneapolis
40 Minn "M-M"
Oliver Corp 400 W Madison St Chicago 6 Ill
Ready-Power Co \$326 Grand tilver Ave
Detroit 8 Mich (Diesel-eiectric for electric industrial trucks)
Sheppard Co R H 101 Philadelphia St Hanover Pa
Vaukesha Motor Co W St Paul Ave Wau-

Waukesha M Motor Co W St Paul Ave Wau-

Resha Wis
Witte Engine Works Oil Well Supply Div
U S Steel Corp 1600 Oakland St Kansas
City 26 Mo

POWER UNITS, Gasoline

(Portable and stationary gasoline engine units)

Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wis

Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y. Syracuse, N. Y. Continental Motors Corp Muskegon 82 Mich

Continental Motors Corp Muskegon 82 Mich
"Red Seal"
Dynassist Wolf Pack—See Wolf Engrg Div
of Rich Plan Corp
Ford Motor Co Engine & Foundry Div 3001
Miller Rd Dearborn Mich
Hercules Motors Corp., 101 11th St., S. E.,
Canton 2, Ohlo.
International Harvester Co., Harvester
Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
M-M—See Minneapolis-Moline Co.
Minneapolis-Moline Co Hor 1050 Minneapolis
40 Minn "M-M"
Oliver Corp 400 W Madison St Chicago 6 Ill
Ready-Power Co., 3826 Grand River Ave.,
Detroit 8, Mich. (Gasoline-electric, for
electric industrial trucks.)
Red Seal—See Continental Motors Corp
Walkesha Motor Co W St Paul Ave Waukesha Wis
Wilson Inc K R Arcade N Y

Waukesha Motor Co W St Paul Ave Waukesha Mis
Wilson Inc K R Arcade N Y
Wilto Engine Works Oil Well Supply Div
U S Steel Corp 1600 Oakland St Kansas
City 18 Mo
Wolf Engrg Corp 1201 Main St Dallas Tex
"Dynassist Wolf Pack" (Trailer propulsion)

Young Engine Corp., P. O. Box 532, Canton Ohio.

POWER UNITS, Hydraulic (Auto) (For automatically operating doers, win dows, rear lights, rear dock lids, driver seats, motor hoods and folding tops) Detroit Harvester Co Dura Div 4500 Detroit Ave Toledo 12 Ohio (For convertible tops)

POWER UNITS, Hydraulic (Industrial) Ford Div of Ford Motor Co Rotunda Dr at Southfield Rd Dearborn Mich

POWER UNITS. Mechanical (Industrial) Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass (Leadscrew type)

PREAMPLIFIERS

Sanborn Co 175 Wyman St Waltham 54 Mass PRECISION GAGES-See Blocks, Gage

PRE-HEATERS, ENGINE-See Heaters, Engine Pre-Heating

PRESS BRAKES-See Brakes, Press

PRESSED STEEL PARTS - See Stampings,

PRESSES, Arbor

Accomark Co 9 Morrell St Elizabeth 4 N J
"Hercules"

Bee-Line Co Box 569 Davenport Iowa
Bellows Co 222 W Market St Akron 3 Ohio
(Fneumatic)
Champion Blower & Forge Co Harrisburg
Ave & Charlotte St Lancaster Pa
Dake Corp 724 Robbins Rd Grand Haven
Mich
Famco Machine Co 3100 Shortan De

Machine Co 3100 Sheridan Rd PRESSES, Deep Drawing sha Wis Grand Was Co Baldwin-Lima-Hamilton C

Mich
Famoo Machine Co 3100 Sheridan Rd
Kenosha Wis
Flexible Power—See General Mfg Co
French Oil Mill Machinery Co Piqua Ohlo
General Mfg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Greenerd Arbor Press Co 41 Crown St
Nashua N H (Hand and hydraulic)
Hannifin Co 618-D S Wolf St Des Plaines Ill
(Pneumatic)
Hercules—See Acromark Co

(Pneumatic)
Hercules—See Acromark Co
Houdaille Industries Inc Manzel Div 315
Babcock St Buffalo 19 N 7 "Pulsolator"
KRW—See K R Wilson Inc
Lempco Froducts Inc 5490 Dunham Rd Bedford Ohio (Electric and hydraulic)
Logan—See Logansport Machine Co Inc

Logansport Machine Co Center Ave Logans port Ind "Logan" (Pneumatic and hy

port In Manley Div Douglas Motors Inc 1234 N 62nd St Milwaukee 13 Wis

Mead Specialties Co 4114 N Knox Ave Chi-cago 41 Ill (Pneumatic)

Nugler Co F A 1748 Berkeley St Santa Monica Calif (Hand and hydraulie) Owatonna Tool Co 342 N Cedar St Owatonna Minn

Pulsolator—S Manzel Div See Houdaille Industries Inc

Rotex Punch Co 2350 Alvardo St San Lean-dro Calif Studebaker Hydraulic Products Co 1733 N 33rd Ave Melrose Park III (Hydraulic and Birdsboro Pa (Hydraulic and Birdsboro Birdsbor air-hydraulic)

Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Ulimo Tool Co 2515 Superior St Cleveland Ohio (Portable) Wilson Inc K R Arcade N Y "KRW"

PRESSES, Bending

PRESSES, Dending
Baidwin-Lima-Hamilton Corp Philadelphia
7 Pa "Hamilton"
Bath Co Cyril 32280 Aurora Rd Solon Ohio
Bend-Ex—See Paul Machine Tool & Die
Works
Birdsboro Steel Foundry & Machine Co
Birdsboro Pi
Cleveland Punch & Shear Works Co 3917
St Clair Ave Cleveland Ohio
Dake Corp 724 Robbins Rd Grand Haven
Mich

Mich
Di-Acro-See O'Neil-Irwin Mfg. Co.
Elmes Engineering Div American Steel
Foundries 1163 Tennessee Ave Cincinnati
29 Ohio (Hydraulic)
Excelsior Tool & Machine Co 21st St &
Ridge Ave East St Louis III
Farquhar—See Oliver Corp A B Farquhar
Div Div
Flexible Power—See General Mfg Co
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave.,
Detroit 11, Mich. "Flexible Power"
H-P-M-See Hydraulic Press Mfg. Co.
Hamilton — See Baldwin-Lima-Hamilton

Hamilton — See Bridwin-Lana-Paninton Corp Heavy Machine Div Cleveland Crane & En-gineering Co 5867 E 289 St Wickliffe Ohio "Steelweld" Hill Inc Walter P 22183 Telegraph Rd Detroit

Hill Inc Walter P 22183 Telegraph 19 Mich Hydraulic Press Mfg Co Mount Gilead Ohio Hydraulic Press Mfg Co Mount Gilead Ohio

Hydraulic Press Mfg Co Mount Gilead Ohio
"H-P-M"
Kane & Roach Inc Niagara & Shonnard Sts
Syracuse 4 N Y
Kling Bros Engrg Works 1320 N Kostner
Ave Chicago 51 Ill
Lake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y (Hydraulic)
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 12 Wis
Mesta Machine Co Box 1466 Pittsburgh 30
Pa

Mesta Machine Co Box 1999 Finds and Pa Pa Oliver Corp A B Farquhar Div 142 N Duke St York Pa "Farquhar" (Hydraulie) O'Neil-liwin Mfg. Co., Lake City, Minn. "Di-Acro." Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill "Bend-Ex" (Compressed air." Dinas Engrg Co 601 Walnut St Aurora Ill

(Compressed air)
Pines Engre Co 601 Walnut St Aurora III
(Hydraulie)
Steelweld—See Heavy Machine Div Cleveland Crane & Engineering Co
Tishken Products Co 13000 W Eight Mile Rd
Detroit 37 Mich
Verson Allsteel Press Co 93rd St & Kenwood
Ave Chicago 19 III
Williams White & Co 100 Eighth St Moline
III

Zeh & Hahneman Co., 182 Vanderpool St. Newark 5, N. J.

PRESSES, BROACHING — See Machines. Broaching; also Presses, Forcing; also Presses, Forging; also Presses, Hydraulic

Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa "Hamilton"
Birdsboro Steel Foundry & Machine Co.
Birdsboro Steel Foundry & Machine Co.
Birdsboro. Pa.
Bilas Co E W 1275 Raff Rd S W Canton One-Cleveland Punch & Shear Works Co 3917
St Clair Ave Cleveland Ohio
Federal Machine & Welder Co 1745 Overland
Ave Warren Ohio
Ferracute Machine Co., 429 E. Commerce
St., Bridgeton, N. J.
French Oll Machinery Co., Piqua, Ohio,
H.-P.M.—See Hydraulic Press Mfg. Co.
Hamilton—See Baldwin-Lima-Hamilton Corp
Heavy Machine Div Cleveland Crane &

Heavy Machine Div Cleveland Crane Engrg Co 5867 E 289th St Wickliffe Ohio Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"

Niagara Machine & Tool Works, 683 North-land Ave., Buffalo 11, N. Y. Verson Allsteel Press Co., 93rd St. & Ken-wood Ave., Chicago, Ill.

Watson-Stillman Press Div Farrel-Birming-ham Co 565 Blossom Rd Rochester 10 N Y Williams White & Co 100 Eighth St Moline

PRESSES, DRILL-See Machines, Drilling

Birdsboro Steel Foundry & Machine Co Birdsboro Pa (Hydraulic) Bliss Co E W 1375 kaff kd S W Canton Ohio Cleveland Punch & Shear Works Co 3917 St Clair Ave Cleveland Ohio Dake Corp 724 Robbins Rd Grand Haven

St Clair Ave Cleveland Onlo
Dake Corp 724 Robbins Rd Grand Haven
Mich
Federal Machine & Welder Co 1745 Overland
Ave Warren Ohio
Ferracute Machine Co., 429 E. Commerce
St. Bridgeton, N. J.
French Oil Machinery Co., Pique, Ohio.
H-P-M-See Hydraulic Press Mfg. Co.
Hydraulic Press Mfg. Co., Mount Gliead,
Ohio. "H-P-M."
Lake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y
Minster Machine Co 240 W 5th St Minster
Ohio

Ohio Verson Allsteel Press Co., 93rd St. & Ken-wood Ave., Chicago 19. Ill. Watson-Stillman Press Div Farrel-Birming-ham Co 566 Blossom Rd Rochester 10 N Y Zeh & Hahnemann Co 182 Vanderpool St Newark 5 N J

PRESSES, Extruding

PRESSES, Extruding

Baldwin-Lima-Hamilton Corp Philadelphia
7 Pa. 'Loewy' (Hydraulic)
Birdsboro Steel Foundry & Machine Co
Birdsboro Pa (Hydraulic)
Bliss Co E W 1278 Raff Rd S W Canton Ohio
Cleveland Punch & Shear Works Co 3917
St Clair Ave Cleveland Ohio
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 III
Dow Chemical Co Midland Mich
Farquina—See Oliver Corp A B Farquhar
Div
French Oil Mill Machines Commission of the Corp of the Corp

Div Div Mill Machinery Co., Piqua, Ohio Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic) Loewy—See Baldwin-Lima-Hamilton Corp Oliver Corp A B Farquhar Div 142 N Duke St York Pa "Farquhar" (Hydraulic) Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

PRESSES, Forcing

Baldwin-Lima-Hamilton Corp Philadelphia

42 Pa (Hydraulic)

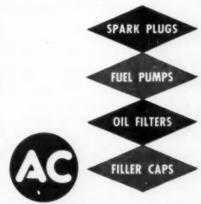
Birdsboro Steel Foundry & Machine Co.,

Birdsboro, Pa.

Dake Corp 724 Robbins Rd Grand Haven

Mich.

Mich
Elmes Engineering Div American Steel
Foundries 1163 Tennessee Ave Cincinnati
29 Ohio (Hydraulic)
Farquhar Co., A. B., 142 N. Duke St., York,
Pa. (Hydraulic)
Federal Machine & Welder Co 1745 Overland
Ave Warren Ohio



QUALITY **PRODUCTS**

ADAPTERS (DRIVE) . AIR CLEANERS . AIR CLEANERS AND SILENCERS (COMBINATION)
AMMETERS - BREATHERS (CRANKCASE) DIE CASTINGS (ZINC) - FLEXIBLE SHAFT ASSEMBLIES - FUEL AND VACUUM

PUMPS (COMMINATION) - ROTARY VACUUM PUMPS - FUEL FILTERS FUEL STRAINERS - GASOLINE STRAINERS - GAUGES—AIR (PRESSURE). GASOLINE, OIL (PRESSURE), TEMPERATURE (WATER, OIL) - PANELS, MEHT) - SPEEDOMETERS - TACMOMETERS - TERMINALS (IGNITION WIRE) - VALVES (CRANKCASE VENTILATION) - PRESSURE SWITCHES TEMPERATURE SWITCHES

AC THE ELECTRONICS DIVISION OF GENERAL MOTORS . FLINT, MICHIGAN

Circle 245 on Inquiry Card for more data

PRESSES, Forcing-continued

Flexible Power—See General Mfg Co Fox Engrg Co 1336 Francis St Jackson Mich French Oil Mill Machinery Co Piqua Ohio General Mfg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power" H-P-M-See Hydraulic Press Mfg. (Hannian Co 615-D S Wolf Rd Des Mig. Co

Plaines Ill (Hydraulic) Hydraulic Press Mfg. Co., Mount Gilead. Ohio. "H-P-M." International Products & Mfg Co 1452 8 Michigan Ave Chicago 5 III (Hydro-

electric)
ake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y (Hydraulic)
ogansport Machine Co., Center Ave., Logansport, Ind. "Logan." (Pneumatic and
hydraulic.)

hydraulic.)
Lucas Machine Div New Britain Machine Ce
12302 Kirby Ave Cleveland 2 Ohio
Oliver Corp A B Farquhar Div 142 N Duke
St York Pa (Hydraulic)
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

PRESSES, Forging

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa 'Loewy' Birdsboro Steel Foundry & Machine Co

Birdsboro Steel Foundry & Machine Co Birdsboro Pa Bliss Co & W 1875 Raff Rd S W Canton Ohio Clearing Machine Corp., 6499 W, 65th St., Chicago 38, Ill. Cleveland Punch & Shear Works Co 3917 St Clair Ave Cleveland Ohio Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati

Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic) Erie Foundry Co., 1253 W. 12th St., Erie, Pa. (Mechanical) French Oil Mill Machinery Co., Piqua, Ohio. H-P-M-See Hydraulic Press Mfg. Co. Hydraulic Press Mfg. Co., Mount Gliead. Ohio "H-P-M."

Ohio "H-P-M:
Lake Eric Machinery Corp 890 Woodward
Ave Buffalo 17 N Y (Hydraulic)
Loewy—See Baldwin-Lima-Hamilton Corp
Lucas Machine Tool Co., 12302 Kirby Ave.
Cleveland 8, Ohio.
Maxipres—See National Machinery Co.
Meeta Machine Co., Box 1466, Pittaburgh 20,
Pa

National Machinery Co., Tiffin, Ohio. "Maxi-

res."
Oliver Corp A B Farquhar Div 142 N Duke St York Pa "Farquhar" (Hydraulic)
Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
Watson-Stillman Press Div Farrel-Birmingham Co 555 Blossom Rd Rochester 10 N Y Zeh & Hahnemann Co., 182 Vanderpool St., Newark S. N. J.

PRESSES, Hydraulic

Air Hydraulics Inc \$11 Belden St Jackson

Mich
American Broach & Machine Co. (Div. of
Sundstrand Machine Tool Co.), 415 W.
Huron St., Ann Arbor, Mich
Anderson Bros. Mfg. Co., 1907 Kiswaukee
St., Rockford, III.
Baldwin-Lima-Hamilton Corp Philadelphia
7 Pa, "Loewy"
Birdsboro Steel Foundry & Machine Co.,
Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St.,
Milwaukee 46 Wis
Bilss Co E W 1375 Raff Rd S W Canton Ohio
Chambersburg Engrg Co Derbyshire St
Chambersburg Pa
Clearing Machine Corp., 6499 W. 65th St.,
Chicago 38, III.

Chicago 38, Ill.

Clifton Hydraulic Press Co 289 Alwood Rd

litton N.J. on Co Div Snyder Tool & Engrg Co 3400 Lafayette St Detroit 7 Mich e Corp 724 Robbins Rd Grand Haven

Mich Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd., Columbus, Ohio "Denison Multipress" Detroit Broach & Machine Co 950 S Rochester Rd Rochester Mich Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio

29 Ohio rie Foundry Co., 1253 W. 12th St., Erie,

Farquhar-See Oliver Corp A B Farquhar Div Div Fox Engrg Co 1838 Francis St Jackson Mich French Oil Mill Machinery Co., Piqua, Ohio General Mig Co 6432 Farnsworth Ave De-troit 11 Mich Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. H-P-M—See Hydraulic Press Mfg. Co. Hannifin Corp 615D 8 Wolf Rd Des Plaines III

ill Inc Walter P 22183 Telegraph Rd Detroit 19 Mich Hill

Detroit 19 Mich
Hydraulic Press Mfg. Co., Mount Gliead,
Ohio. "H-P-M."
KRW—See K R Wilson Inc
Kane & Roach Niagara & Shonnard Sts
Syracuse 4 N Y
Lake Erie Machinery Corp 890 Woodward
Ave., Buffaio 17, N. Y.
Lapointe Machine Tool Co., 34 Tower St.,
Hudson, Mass. "Lapointe Hudson."
Lempco Products Inc 5490 Dunham Rd
Bedford Ohio

Bedford ford Ohio Engrg Co 13840 Elmira Ave Detroit 27

Link Engrg Co 13840 Elmira Ave Cin-Mich Mich 25 Ohio Lodge & Shipley Co 3055 Colerain Ave Cin-cinnati 25 Ohio Loewy—See Baldwin-Lima-Hamilton Corp Logan Engrg Co 4901 W Lawrence Ave Chi-cago 30 III

port Ind Manley Div American Chain & Cable Co 1234 N 62nd St Milwaukee 13 Wis Mesta Machine Co Box 1466 Pittsburgh 30

Multipress—See Denison Engrg Co.
Munton Mfg Co 9161 Fullerton Ave Franklin Park III
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Nugler Co F A 1748 Berkeley St Santa
Monica Calif
OTC—See Owatonna Tool Co
Oliver Corp A B Farquhar Div 142 N Duke
St York Pa (Hydraulic)
Owatonna Tool Co 342 N Cedar St Owatonna
Minn "OTC"
Paul Machine Tool & Die W

Owatonna Tool Co 342 N Cedar St Owatonna Minn "OTC"
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicaco 32 III
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn (Shop and portable)
Schildmeier Co H C 312 N Senate Ave Indianapolis 4 Ind Studebaker Hydraulic Products Co 1733 N 33rd Ave Melrose Park III
Sutton Engrg Co 234 S Potter St Bellefonte Pa
Tamco—See Tobin-Arp Mfg Co

Pa
Tamco—See Tobin-Arp Mfg Co
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn "Tamco" (Air-hydraulic

neapolis 23 Minn "Tamco" (Ali-nyuraune for piston pins)
Tripp F A 409 E Fort St Detroit 26 Mich Verson Allsteel Press "o., 93rd St & Ken-wood Ave., Chicago, Ill. "Verson Wheelon" Watson-Stillman Press Div Farrel-Birming-ham Co 565 Blossom Rd Rochester 10 N Y Williams White & Co 100 Eighth St Moline

III
Wilson Inc K R Arcade N Y "KRW"
Winona Tool Mfg. Co., 1430 W. Broadway.
Winona, Minn. "Wi-To-Co."
Wi-To-Co.—See Winona Tool Mfg. Co.

PRESSES, Injection Molding

(See also Presses, Plastic Molding) Watson-Stillman Press Div Farrell-Birming-ham Co 565 Blossom Rd Rochester 10 N Y

PRESSES, Plastic Molding

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio Baldwin-Lima-Hamilton Corp Philadelphia

Baldwin-Line - Address - A

Ohio ake Corp 724 Robbins Rd Grand Haven

Dake Corp 724 Robbins Rd Grand Haven Mich Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic) Fellows Gear Shaper Co 78 River St Springfield Vt Francis Co., Chas. E., Huntington, Ind. French Oil Mill Machinery Co., Piqua, Ohio. H-P-M-See Hydravitic Press Mfg. Co. Hannifin Co 615-D S Wolf Rd Des Plaines III (Pneumatic and hydraulic) Hydraulic Press Mfg. Co 1000 Marion Rd Mount Gliead Ohio "H-P-M" Impco—See Improved Machinery Inc Improved Machinery Inc Improved Machinery Inc St Nashua N H "Impco" Rux Machine Co 6725 N Ridge Ave Chicago 26 III

26 III
ake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y
ester Engrg. Co., 2711 Church Ave., Cleveland 13, Ohio. (Sole distributors, LesterPhoenix Inc 2711 Church Ave Cleveland 10,
Ohio)

Lewis Welding & Engineering Corp 1 Interstate St Bedford Ohlo
Reed-Prentice Corp., 677 Cambridge St.,
Worcester 4, Mass. "Reeds."
Stokes Corp F. J., 5500 Tabor Rd., Philadelphia 20, Pa.
Verson Allsteel Press Co 93rd St & Kentwood Ave Chicago 19 III
Wabash Metal Products Co Hydraulics Div 1569 Morris St Wabash Ind (Hydraulic)
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y
Williams White & Co 100 8th St Moline III

PRESSES. Powdered Metal

(For compressing powdered metal) Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa "Hamilton" Bliss Co E W 1375 Raff Rd S W Canton Ohio Clearing Machine Corp 6499 W 65th St Chi-

Bliss Co E W 1370 Corp 6499 W Work
Clearing Machine Corp 6499 W Work
cago 38 Ill
Colton Co Div of Snyder Tool & Engrg Co
Arthur 3400 E Lafayette St Detroit 7 Mich
Dake Corp 724 Robbins Rd Grand Haven
Div American Steel

Arthur Dake Corp 724 Robbins in Mich Mich Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati

Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraullic) Federal Machine & Welder Co 1745 Overland Ave Warren Ohio Hamilton—See Baldwin-Lima-Hamilton Corp Kux Machine Co 6725 N Ridge Ave Chicago 26 Ili

Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic) Stokes Corp 5500 Tabor Rd., Philadelphia 20

Watson-Stillman Press Div Farrel-Birming-ham Co 565 Blossom Rd Rochester 10 N Y

PRESSES, PUNCH-See Machines, Punching

PRESSES, Sheet Metal Working

Alpha Press & Machine Inc 9281 Freeland Ave Detroit 28 Mich Baird Machine Co 1700 Stratford Ave Strat-

ford Conn (Automatic) Baldwin-Lima-Hamilton Corp Philadelphia 7 Pa

7 Pa Barnes Corp John S 301 S Water St Rock-ford III (Hydraulic) Bath Co Cyril 32280 Aurora Rd Solon Ohio Birdsboro Steel Foundry & Machine Co

Birdsboro Pa Bliss Co E W 1275 Raff Rd S W Canton Ohio Brandes Press Co 6408 Euclid Ave Cleveland

3 Ohio C & M—See Coulter & McKenzie Machine Co

C&M—See Coulter & McKenzie Machine Co-Cecostamp—See Chambersburg Engrg Co Derbyshire St Chambersburg Pa "Cecostamp" Chicago—See Dreis & Krump Mig. Co. Clearing Machine Corp., 6499 W. 65th St., Chicago 38, III. Cleveland Punch & Shear Works Co 3917 St Clair Ave Cleveland Ohio Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn "C & M."

Danly Machine Specialties inc 2100 S Laramie Ave Chicago 50 III

Di-Acro—See O'Nell-Irwin Mig. Co.
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif "Diamond" & "Multi-Max" Di Machine Corp 2711 W Irving Park Rd Chicago 18 III "Diebel"

Diebel—See Di Machine Corp

Rd Pico Calif "Diamond" & "Multi-Max"
Di Machine Corp 2711 W Irving Park Rd
Chicago 18 Ill "Diebel"
Diebel—See Di Machine Corp
Dreis & Krump Mfg. Co., 7424 Loomis Blvd.,
Chicago, Ill. "Chicago."
Elmes Engineering Div American Steel
Foundries 1163 Tennessee Ave Cincinnati
29 Ohlo (Hydraulic)
Erie Foundry Co 1253 W 12th St Erie Pa
(Mechanica)

Mechanical)
Excelsior Tool & Machine Co., 31st St. &
Ridge Ave., East St. Louis, Ill.
Farquhar—See Oliver Corp A B Farquhar
Div Federal Machine & Welder Co 1745 Overland

Poly Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco" Federal Press Co., 511 E. Division St., Elkhart, Ind. Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J. French Oll Mill Machinery Co., Plqua, Ohio. H-P-M—See Hydraulic Press Mfg. Co. Hamilton—See Hydraulic Press Mfg. Co. Hamilton—See Baldwin-Lima-Hamilton Corp Hamilton Div., Cleveland Crane & Engineering Co., 5867 E. 289 St., Wick-liffe, Ohio. "Steelweid." Henry & Wright Div of Emhart Mfg Co 760 Windsor St Hartford 1 Conn Hufford Machine Works Inc 1700 E Grand Ave El Segundo Calif Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M." Johnson Machine & Press Corp 620 W Indiana Ave Elkhart Ind L & J Press Corp, Elkhart, Ind. Lake Eric Machinery Corp 830 Woodward Ave Buffalo 17 N Y

Minster Machine Co 240 W 5th St Minster PRESSES, Tire and Tube Curing

Ohio Multi-Max—See Diamond Machine Tool Co Nuagara Machine & Tooi Works, 683 North-land Ave., Buffalo II, N. Y. Oliver Corp. A B Farquhar Div 142 N Duke St York Fa "Farquhar" Oktober 18 Jan 1980 Co., Lake City, Minn.

"Di-... Perkins Mas Machine Co., 12 Perkins Ave., War-

ren, Mass. ecision Welder & Flexopress Corp 3520 Chsen Ave Cincinnati 9 Ohio "Precision

The spires of the state of the

N Y
Verson Allsteel Press Co 33rd St & Kenwood Ave Chicago III
Walsh Press & Die Div of American Gage
& Machine Co 4709 W Kinzle St Chicago
44 III
Warco-See Federal Machine & Welder Co
Waterbury Farrel Foundry & Machine Co
Waterbury Farrel Foundry & Machine Co
Waterbury Farrel Foundry & Machine Co
Wateson-Stillman Press Div Farrel-Birming
ham Co 565 Blossom Rd Rochester 10 N Y
(Hydraulic)
Wean Equipment Co 22838 Lakeland Ave

Wean Equipment Co 22828 Lakeland Ave Euclid Cleveland 17 Ohio Williams White & Co 100 Eighth St Moline

Zeh & Hahnemann Co 182 Vanderpool St Newark 5 N J

PRESSES, STAMPING — See Presses, Sheet Metal Working

PRESSES, Straightening

(Including bench, pedestal and power types; also Machines, Straightening)

American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich. Anderson Bros. Mfg. Co., 1997 Kishwaukee St., Rockford, Ill. (Hydraulic.) Baldwin-Lima-Hamilton Corp Philadelphia 42 Pa

Bear Mfg Co 21st St & Fifth Ave Rock Island III (Axle and wheel) Bee-Line Co., Box 569, Davenport, Iowa-(Axle, brake drum, hub, frame and spring

(Axle, brake grum, may, re-arching.)
Birdsboro Steel Foundry & Machine Co.,
Birdsboro, Pa.
Bifse Co E W 1275 Raff Rd S W Canton Ohlo
Dake Corp 724 Robbins Rd Grand Haven

Dake Corp 724 Posterior Mich Mich Emes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati (Hydraulic)

Foundries 1163 Tennessee Ave Cincianati
29 Ohio (Hydraulic)
Fox Engrg Co 1336 Francis St Jackson Mich
Greenerd Arbor Press Co., 41 Crown St
Nashua, N. H.
H.-P.M.—See Hydraulic Press Mfz. Co.
Hannafin Co 615-D S Wolf Rd Des Plaines
Ill (Hydraulic)
Hydraulic Press Mfg. Co., Mount Gliead,
Ohio. "H.-P.M."
Impco-See Industrial Metal Products Corp
Industrial Metal Products Corp 3417 W St
Joseph St Lansing 1 Mich "Impco" (Transmission shaft, axle shaft, rocker arm shaft,
camshaft and crankshaft)
Lake Erie Machinery Corp 890 Woodward
Ave Buffalo 17 N Y (Hydraulic)
Lempco Products Ine 5490 Dunham Rd Bedford Ohio
Mackintosh-Hemphill Div E W Bliss Co 901

ford Ohio
Mackintosh-Hemphill Div E W Bliss Co 901
Bingham St S S Pittsburgh 3 Pa (Tubing)
Manbee Equip Div Bear Mfg Co P O Box 607
Rock Island Ill
Manley Div Douglas Motors Inc 1234 N 62nd
St Milwaukee 13 Wis
Oliver Corp A B Farquhar Div 142 N Duke
St York Pa
Riess Mfg Co., 315 S. Union St., Kokomo,
Ind (Arts)

St York Pa.

Riess Mfg. Co., 315 S. Union St., Kokomo, Ind. (Axle.)

Schildmeier Co H C 312 N Senate Ave Indianapolis 4 Ind (Axle; steering arms: drive shafts, knee-action parts; hubs, brake drums, etc)

Springfield Machine Tool Co 631 Southern Ave W Springfield Ohio (Bench)

Storm-Vulcan Inc 2225 Burbank St Dallas 19 Tex (Connecting rod)

Sutton Engrg Co 234 S Potter St Bellefonte Pa

Pa Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago 19 III Watson-Stillman Press Div Farrel-Birming-ham Co 565 Blossom Rd Rochester 10 N Y Williams White & Co 100 Eighth St Moline

PRESSES. Tire

(For pressing hard rubber tires on and off rims)

Corp 724 Robbins Rd Grand Haven

McNeil Machine & Engineering Co 96 Crosier St Akron 11 Ohio "McNeil-Akron

PRESSES, Welding

Bliss Co E W 1375 Raff Rd S W Canton Ohio Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill. (Spot.)

PRESSURE TESTING MACHINES—See Ma-chines, Pressure and Vacuum Testing

PRIMERS, Engine (Hand)

Chevron—See Standard Oil Co of Calif Dole Valve Co 6201 Oakton St Morton Grove Dole

Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III Imperial Brass Mig Co 6300 W Howard St Chicago 31 Ill Standard Oil Co of Calif Western Operations Inc 225 Bush St San Francisco 20 Calif "Chevron" Start Pilot Corp 61 Second St Mineola N Y

PRIMING CUPS-See Cups, Priming

PROFILE GRINDING MACHINES—See Ma-chines, Profiling

PROFILING MACHINES-See Machines, Pro-

PROJECTORS, Optical (Contour) Eastman Kodak Co 343 State St Rochester 4 N Y

PROPELLER SHAFTS - See Shafts, Pro peller

PROTECTIVE COATINGS FOR METAL PARTS—See Coatings, Protective (Meta Parts)

PRUSSIAN BLUE-See Blue, Mechanics'

PULLEYS, Belt

(For fan, generator or accessory drives)

Automatic Steel Products Inc Spun Steel Div 1201 Camden Ave S W Canton 6 Obio "Spunsteel" (V-belt) Bull Dog—See Jambor Tool & Stamping Co Climax Metal Products Co 867 E 140th St Cleveland 10 Obio

Indestro M Mfg. Co., 2649 N. Kildare Ave., Chi-

Lansing Sta-ing, Mich.

ing, Mich.

Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Generator) (Sole distributors Vulcan Motor Products Inc 1060
Broad St Newark 2 N J)
Spunsteel — See Automatic Steel Products
Inc.
Valley Engre Products Inc. 276 10th St. Products

Valley Forge Products Inc 370 19th St Brook-lyn 15 N Y Vulcan—See Paragon Products Corp

PUMP FLOATS, OIL-See Floats, Oil Pump

PUMP PARTS AND FITTINGS—See Couplings, Magneto, Generator and Water Pump; Cups, Leather; Hose, Air (Tire Inflating); Parts, Water Pump; Rings & Seals, Oil & Grease Retaining; also Shafts, Water Pump

PUMPS, AIR-See Compressors, Air

PUMPS, Barrel Emptying (Pneumatic)

tewart-Warner Corp Alemite D Broadway Chicago 14 Ill "Alemite Stewart-Warner

PUMPS, Fuel (Aircraft)

Pesco Products Div Borg-Warner Corp 24700 N Miles Rd Bedford Ohio

PUMPS, Fuel (Auto)

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Me-chanical also combustion fuel and vac-

Automotive Div Airtex Products Inc Fairfield Ill (Also combination vacuum)

vacuum)
Alco—See Alloy Míg Co
Alloy Míg Co 3207 S Shields Ave Chicago
16 Ill "Alco" "Alloy" "Quality Bulit"
American Motor Products Co Fond du Lac
Wis "Ampco"

Ame. Wis

Wis "Ampeo"
Ampeo—See American Motor Products Co
Autopulse—See Electric Autopulse Div
Bendix—See Eclipse Machine Div Bendix
Aviation Corp
Blackstone Mfg Co 4630 W Harrison St Chicago 44 III
Capac—See Wells Mfg Corp
Carter Carburetor Div of ACF Industries
Inc 2840 N Spring Ave St Louis 7 Mo
(Electric and mechanical)

Eastern Industries Inc 100 Skiff St Hamden Conn

Conn

Eclipse Machine Div Bendix Aviation Corp

Elmira N Y "Bendix" (Electric)

Electric Auto-Lite Co Toledo 1 Ohio

Electric Autopulse Div Walbro Corp Cass

City Mich "Autopulse"

Freedco Products Inc 36-08 33rd St Long

Island City 6 N Y

Hygrade Products Div Standard Motor Prod
ucts Inc 37-18 Northern Blvd Long Island

City 1 N Y

Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn

N J (Also combination fuel and vacuum)

Master Parts Div Airtex Products Inc Fair
field III field III

neid III
Quality Built—See Alloy Mfg Co
Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicago 14 III (Electric)
Thompson Products Inc 28555 Euclid Ave
Cleveland 17 Ohio

Tokheim Corp 1602 Wabash Ave Fort Wayne 1 Ind (Electric) Wells Mfg Corp 12 S Brooke St Fond du Lac Wis "Capac"

PUMPS, GAS ENGINE DRIVEN-See Com-pressors, Air (Gasoline Engine Driven)

PUMPS, GREASE (PORTABLE)-See Lubricators, Portable cators, Hand; also [High Pressure]

PUMPS, Hydraulic (Auto, Truck, Etc.)

Aero Mfg & Machining Co 2724 Ninth St Muskegon Heights Mich Barnes Corp John S 301 S Water St Rock-ford III (For power steering) Char-Lynn Co 2843 26th Ave S Minneapolis

Eastern Industries Inc 100 Skiff St Hamden Conn Eaton Mfg Co Pump Div W Hanover St Marshall Mich (For power steering units and automatic transmissions) Hy-Lo-Jack—See Monarch Road Mchy Co Monarch Road Machinery Co 1331 Michigan St N E Grand Rapids 3 Mich "Hy-Lo-Jack"

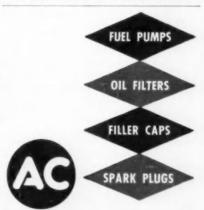
Muncie Parts Mfg Co 2601 S Jefferson St Muncie Ind (Truck)

CLEVELAND POWER PRESSES

There's a Cleveland for every requirement—from the smallest open back inclinable to the largest four point suspension.

THE CLEVELAND PUNCH & SHEAR WORKS COMPANY

Circle 246 on Inquiry Card for more data



QUALITY PRODUCTS

ADAPTERS (DRIVE) . AIR CLEANERS . AIR CLEANERS AND SILENCERS (COMBINATION)
AMMETERS - BREATHERS (CRANKCASE) DIE CASTINGS (ZINC) + FLEXIBLE SHAFT ASSEMBLIES + FUEL AND VACUUM

PUMPS (COMBINATION) . ROTARY VACUUM PUMPS . FUEL FILTERS FUEL STRAINERS - GASOLINE STRAINERS - GAUGES-AIR (PRESSURE) GASOLINE, OIL (PRESSURE), TEMPERATURE (WATER, OIL) - PANELS (INSTRUMENT) - SPEEDOMETERS - TACHOMETERS - TERMINALS (IGAITION

WIRE) . VALVES (CRANKCASE VENTILATION) . PRESSURE SWITCHES TEMPERATURE SWITCHES

AC THE ELECTRONICS DIVISION OF GENERAL MOTORS . FLINT, MICHIGAN Circle 247 on Inquiry Card for more data PUMPS, Hydraulic (Auto, Truck, etc.) -continued

Owatonna Tool Co 342 N Cedar St Owatonna

Minn tool to star R cenar St Owatonia Minn Roper Hydraulics Inc 225 Blackhawk Park Ave Rockford Ill Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind Thompson Products Inc 23585 Euclid Ave Cleveland 17 Ohio (For power steering, lifting and transmission) reserving and transmission St Chicago 19 Ill Vickers Inc Mobile Hydraulics Div Administrative & Engrg Center Detroit 32 Mich (For power steering)
Webster Electric Co 1900 Clark St Racine Wis

Wis Fisconsin Hydraulics Inc 3165 N 30th St Milwaukee 16 Wis (For truck body hoists) Fooster Div Borg-Warner Corp Old Mans-field Rd Wooster Ohio

PUMPS, Hydraulic (Machine Tool, Etc.)

Precision Products Div of General al Corp 10777 Van Owen St Burbank Calif Corp John S 301 S Water St Rock-

ford Ill

ford III Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio "Denison Hydroilie"

Dudco—See New York Air Brake Co Eastern Industries Inc 100 Skiff St Hamden

Conn Imes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio

29 Ohio Gerotor May Corp Owings Mills Md H-P-M—See Hydraulic Power Div Hydraulic Power Div Hydraulic Prei 1000 Marion Rd Mt Gliead Ohio "H Press Mf

1000 Marion Rd Mt Gliead Onio "H-F-M" Hydreco-See New York Air Brake Co Hy-Lo-Jack—See Monarch Road Mchy Co Lapointe Machine Tool Co 34 Tower St Hudson Mass Monarch Road Machinery Co 1331 Michigan St N E Grand Rapids 3 Mich "Hy-Lo-Jack"

New York Air Brake Co Kalamazoo Div Kalamazoo Mich "Dudco" "Hydreco" Olikear Co 1560 W Pierce St Milwaukee 4 Wis

Wis
Racine Hydraulics & Machinery Inc 2000
Albert St Racine Wis
Roper Hydraulics Inc 225 Blackhawk Park
Ave Rockford III
Studebaker Hydraulic Products Co 1733 N
33rd Ave Melrose Park III
Tuthiii Pump Co 939 E 95th St Chicago 19 !II
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 33
Mich

coster Div Borg-Warner Corp Old Mans-field Rd Wooster Ohio

PUMPS, Machine Tool

Atlas Press Co 1842 N Pitcher St Kalamazoo 1 Mich Barnes Corp John S 301 S Water St Rock-1 Mich Barnes Corp John S 301 S Water St. Frown & Sharpe Mfg. Co., 235 Promenade St. Providence, R. I. Detroit Harvester Co Pioneer Pump Div Paris Ky "Pioneer"

Easy Industries 210 N Racine Ave Chicago 7 III

7 III
Graymills Corp 3705 N Lincoln Ave Chicago
13 III (Portable)
Gusher—See Ruthman Machinery Co.
Logansport Machine Co Center Ave Logansport Ind

port Ind
Pioneer—See Detroit Harvester Co
Roper Hydraulics Inc 225 Blackhawk Park
Ave Rockford Ill
Ruthman Machinery
Cincinnati 2. Ohio.
South Bend Lathe
Works 425 E Madison
St South Bend 22 Ind
Star Jack Co 2638 Davisson St River Grove

Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio Tuthill Pump Co., 929 E. 95th St., Chicago 19, Ill.

III.
 Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 22 Mich (For hydraulic control systems)
 Webster Electric Co 1900 Clark St Racine

PUMPS, Oil Circulating (Engine Driven) Accurate Products Inc 135 N Spring St Indianapolis Ind

Atlas Simplex Corp 22 W Deshler Ave Columbus Ohlo Bull Dog—See Jambor Tool & Stamping Co.

Eaton Mfg Co Pump Div W Hanover St Marshall Mich Elgin Machine Works, 412 N. State St., Elgin, Ill. (For Ford, Chevrolet and Plym-outh cars.)

outh cars.)
(y Duty—See Schwitzer Corp
ambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee, Wis. "Buil Dog." (For
Ford Chevrolet and Plymouth cars)
ipman Pump Works, 2340 11th St., Rockford. m

Cord Corp Riopelle at E Grand Bivd De-roit 11 Mich lling Tool Co 145 W Monroe St Jackson

Mich
Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind "Hy Duty"
Sundstrand Machine Tool Co Hydraulic Div
Rockford Ill "Sundstrand Roto-Roll"
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N X
Woblert Corp 700 E Grand Biver Ave Lane

70hlert Corp 700 E Grand River Ave Lans-ing 5 Mich (For Ford Chevrolet and Plym-

Woiverine Gear & Parts Co Osseo Mich

PUMPS. Vacuum

AC The Electronics Div of General Motors 1300 N Dort Hway Flint 2 Mich Cenco—See Central Scientific Co Central Scientific Co 1700 Irving Park Rd Chicago 13 Ill "Cenco" Electro-Vac—See Trico Products Co Gast Mfg Corp 2300 Highway M139 Benton Harbor Mich (Dry) Leiman Bros Inc 207 Christie St Newark 5 N J Stokes Corp F J 5500 Tabor Rd Philadelphia

20 Pa
Trico Products Co 817 Washington St Buffalo
3 N Y "Electro-Vac" (For windshield

PUMPS, Water Circulating (Auto)

PUMPS, Water Circulating (Auto)
Abco—See Atlas Simplex Corp
Accurate Products Inc 135 N Spring St
Indianapolis Ind
Airtex Automotive Div Airtex Products Inc
Fairfield III
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Atlas Simplex Corp 32 W. Deshler Ave.,
Columbus, Ohio. "Abco."
Cloyes Gear & Products Inc 17214 Roseland
Rd N & Cleveland 12 Ohio "Power-Flow"
Eigin Machine Works, 412 N. State St.,
Eigin, III. (For Ford, Chevrolet and Plymouth cars.)
Ertel Products Co Repl Div of Ertel Mfg

23, N. Y. "Parco." ermite—See Aluminum Industries. Inc. ower-Flow—See Cloyes Gear Works Inc. chwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind "Hy Duty"

dianapolis 7 Ind "Hy Duty"

Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Toledo Steel Products Div Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohio
WMP—See Warner Machine Products, Inc.
Warner Machine Products, Inc. 1200 Rochester St., Muncle, Ind. "WMP."
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich
Wolverine Gear & Parts Co Osseo Mich

PUNCHES, Arch or Washer

Heller Tool Co Heller Dr Newcomerstown Ohlo Osborne & Co., S. S., Jersey & Second Sts.. Harrison, N. J.

PUNCHES, Center, Prick and Drift Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I C-T-K—See Chicago Tool & Kit Mfg Co

Challenger—See Penens Corp Chicago Tool & Kit Mfg Co 230 N Jeffer-son St Chicago 6 III "C-T-K" Cincinnati Tool Co 1967 Waverly Ave Cin-cinnati 12 Ohlo "Hargrave" Cleveland Steel Tool Co., 660 E. 82nd St.,

cinnati 12 Ohio "Hargrave"
Cleveland Steei Tool Co., 660 E. 82nd St.,
Cleveland S, Ohio.
Cornwell Quality Tools Co., Mogadore, Ohio
Duro Metal Products Co 2649 N Kildare
Ave Chicago 39 Ill "Duro-Chrome"
Hargrave—See Cincinnati Tool Co.
Herbrand Div., Bingham-Herbrand Corp.
Lake & Stone Sts., Fremont, Ohio. "Herbrand." "Van Chrome."
Ken Tool Mfg. Co., 768 E. North St., Akron,
Ohio.

Ohio. Kraeuter & Co 585 18 Ave Newark 3 N J Mac—See Mechanic's Tool & Forge Co. Mayhew Steel Products, Inc. Sears St Shel-burne Falls Mass

burne Falls Mass
Mechanic's Tool & Forge Co., Howard St.,
Sabina I, Ohlo. "Mac."
Millers Falls Co Greenfield Mass
Nasa Tool Mfg Corp 3427 Locust Corner Rd
Amelia Ohlo
Nupla Mfg Div of New Plastic Corp 1028 N
Sycamore St Los Angeles 38 Calif (Drift)
OTC—See Owatonna Tool Co.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
& C Tool Co Box 5326 Milwaukie Ore

tonna, Minn. "OTC."

P& C Tool Co Box 5926 Milwaukie Ore
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexto."
Penens Corp 3900 Wesley Terrace Schiller
Park III "Challenger"
Pexto—See Peck, Stow & Wilcox Co.
Proto Tools 2209 Santa Fe Ave Los Angeles
54 Calif
Quality Tools Corp Railroad St New Wilmington Pa

quality Tools Corp Railroad St New Wil-mington Pa Snap-On Tools Corp., 8046 28th Ave., Ken-oshs, Wis. Stanley Tools, 111 Elm St., New Britain,

Starrett Co., L. S., 1 Crescent St., Athol.

Mass. Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.
Tuck Mfg Co 19 Ellis Ave West Bridgewater

Mass nion Tool Co., 48 E. River St., Orange, Union Maas

Mass.

Van Chrome—See Herbrand Div., BinghamHerbrand Corp.

Vichek Tool Co., 3001 E. 87th St., Cleveland
4, Ohlo.

Whitaker Mfg. Co., 409 S. Green St., Chi-

ventaker Mrg. Co., 409 S. Green St., Chi-cago, Ill. Wilde Drop Forge & Tool Co., 2936 Fair-mount Ave., Kansas City, Mo. Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

Eigin, Ill. (For Ford, Chevrolet and Plymouth cars.)

Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
Glipak Automotive Products Div Packer
Auto Parts Inc Roselle N J
Grapho Products Inc P O Box 8604 Lawrence Ind
Hy Duty—See Schwitzer Corp
Imco Mfg & Sales Co 10 E Lafayetts Ave
Baltimore 3 Md
L C Products Inc 2332 Alvord St Indianapolis 7 Ind
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg Co 2220 Marconi Ave St
Louis 10 Mo
Manter Parts Div Airtex Products Inc Fairfield Ill
National—See Wheel Parts & Mfg Co
Parco—See Parts Mfg. Co., 311 W. 64th St., New York
23, N. Y. "Parco."
Permite—See Aluminum Industries. Inc.
Power-Flow—See Cloyes Gear Works Inc Di-Acro—See O'Neil-Irwin Mig Co Hendley & Whittemore Co Box 959 Beloit Wis
Lewthwaite Machine Co T H 324 E 47th
St New York N Y "THL"
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co Lake City Minn "Di-

Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto" Pexto—See Peck Stow & Wilcox Co THL—See T H Lewthwaite Machine Co Whitney Metal Tool Co 190 Forbes St Rock-ford Ill

PUNCHES, PRICK - See Punches, Center, Prick and Drift

PUNCHES, WASHER-See Punches, Arch er

PUNCHES and SHEARS

Beloit—See Hendley & Whittemore Co. Buffalo Forge Co 490 Broadway Buffalo 4

N Y
Champion Blower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster, Pa.
Cleveland Punch & Shear Works Co., 2917
St. Clair Ave., Cleveland, Ohio.
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10
N Y "Hilles & Jones"
Coulter & McKenzie Machine Co 35 Union
Ave Bridgeport Conn
Di-Acro—See O'Nell-liwin Mfg. Co.
Excelsior Tool & Machine Co 31st St &
Ridge Ave East St Louis III
Gundlach Machine Co., T., 226 Centerville
Ave., Belleville, III. "Little Giant."
(Bench.)

Ave., Belleville, Ill. "Little Giant."
(Bench.)
Hendley & Whittemore Co Box 959 Beloit
Wils "Beloit"
Hilles & Jones—See Consolidated Machine

Kent-Owens Machine Co., 958 Wall St., To-

Kent-Owens Machine Co., 958 Wall St., To-ledo, Ohio.
Kiing Bros. Engineering Works, 1320 N Kostner Ave., Chicago 51, Ill.
Little Giant—See Gundlach Machine Co.
O'Neil-Irwin Mfg. Co., Lake City, Minn
"Di-Acro." St. Co., Edw. City, Co., 127 Center St.

Ceck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto." erkins Machine Co., 12 Perkins Ave., War-

Perkins Machine Co., 12 Perkins Ave., War-ren, Mass. Pexto—See Peck, Stow & Wilcox Co. Williams White & Co 100 Eighth St Moline

PURIFIERS, Exhaust Combustion Engines) Exhaust (For Internal

Independence Chemical Co 606 S Water St
Philadelphia 47 Pa "Nodorizer" (Chemical
for Diesel engines)
Nodorizer—See Independence Chemical Co
OCM—See Oxy-Catalyst Inc
Oxy-Catalyst Inc Wayne Pa "OCM"

PYROMETERS

(See also Thermometers, Recording and Indicating)

Alnor—See Illinois Testing Laboratories
Barber-Colman Co 1300 Rock St Rockford
Ill "Wheelco"
Bristol Co Waterbury 20 Conn
Electronik — See Minneapolis - Honeywell
Regulator Co

Electronik — See Minneapolis - Honeyweil Regulator Co
Foxboro Co., Neponset Ave., Foxboro, Mass. G-E--See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
fordon Co Claud B 3000 S Wallace St Chicago 16 Ill "Xactemp"
Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill. (Portable)
Illinois Testing Laboratories, 420 N. La Salle St., Chicago, Ill. "Alnor." "Pyro-Lance."
Leeds & Northrup Co., 4970 Stenton Ave., Philadelphia 44, Pa. "Speedomax."
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.
Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44, Pa "Electronik" "Pyr-O-Vane"
"Protect-O-Vane — See Minneapolis-Honeywell Regulator Co
Pyro—See Pyrometer Instrument Co.
Pyro—See Pyrometer Instrument Co., Pergenfield, N. J.

yro-La tories.

tories.

Pyrometer Instrument Co., Bergenfield, N. J

"Pyro."

Pyr.O-Vane — See Minneapolis - Honeywell
Regulator Co
Radiamatic — See Minneapolis-Honeywell

Regulator Co Sneedomax—See Leeds & Northrup Co. Weston Instruments Div of Daystrom Inc 614 Frelinghuysen Ave Newark 12 N J Wheelco-See Barber-Colman Co Xactemp—See Claud S Gordon Co

QUENCHING MACHINES - See Machines, Quenching

QUENCHING TANKS-See Tanks, Quenching RACES, BALL-See Cups and Cones, Ball RACKS. BAR STOCK—See Racks, Stock Tire and Tool (Metal)

RACKS, Stock, Tire and Tool (Metal)

ASI—See Angle Steel Inc Adjusto Deck—See Walter Haertel Co Angle Steel Inc., 56 Oak St., Plainwell, Mich.

Fenton Industries 5105 San Fernando Rd
W Los Angeles 29 Calif "Fenton Fooler"
(Tire); "Handy van" (Portable drum)
Frick-Gallagher Mfg Co 200 W Second St
Wellston Ohio "FGM"
Haertel Co Walter 2840 Fourth Ave S Minneapolis 8 Minn "Adjusto Deck"
Handy van—See Fenton Industries
Heller & Co W C 1997 Wabash Ave Montpeller Ohio
International Equipment Div Morrison Rail
way Supply Corp P O 185 Sta F Buffalo
N Y (Sole distributors Jack P Hennessy
Sales Co Englewood N J)
Kirspel Industries Inc Livingston N J
(Portable tire)
Lewis-Shepard Products Inc 1050 Walnut St
Watertown Mass "LoadMaster"
LoadMaster—See Lewis-Shepard Products
Load Master—See Lewis-Shepard Products
Long Matal Products Inc 2021 Montgomery

Inc Lyon Metal Products Inc 2931 Montgomery St Aurora III MHS—See Mechanical Handling Ssystems

echanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich "MHS" (Stock) Inc Mechanical

Paltier Corp 1701 Kentucky St Michigan City

Ind
Republic Steel Corp Pressed Steel Div 6100
Truscon Ave Cleveland 27 Ohio (Also
portable drum)
Revolator Co., U. S. Route 1 at 86th St.,
North Bergen, N. J. (Barrel and drum.)
Turner System—See Factory Service Co.
Unistrut Products Co 933 Washington Blvd
Chicago 7 Ill (Framing)

RADIAL DRAW FORMING MACHINES—See Machines, Forming (Radial Draw)

RADIATOR PARTS and ATTACHMENTS

See following heads: Caps. Radiator Cores, Radiator

Fans, Radiator Gages, Water Temperature Indicating

Grilles, Radiator Guards, Radiator Grille Fender and Trunk Heaters, Engine Pre-Heating

Hose, Radiator Monograms, Initials and Emblems (Orna-mental)

Ornaments, Radiator and Hood Shutters, Radiator

RADIATORS, Engine Cooling

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." Beacon Auto Radiator Co 110 Brookline Ave Boston 15 Mass Blackstone Corp., 1111 Allen St., Jamestown,

N. Y.
Daniel Radiator Mfg Co 5542 Harvey Wilson
Dr Houston 20 Tex "Gold Seal"
Eurska—See Auto Radiator Mfg. Co.
Fedders-Quigan Corp. Co., 57 Tonawanda
St., Buffalo 7, N. Y.
G & O Mfg. Co., 138 Winchester Ave., New
Haven, Conn. Haven, Conn. eneral Radiator Co P O Box 28 Mt Vernon

General Radiator Mfg Co
Ill
Gold Seal—See Daniel Radiator Mfg Co
Harrison Radiator Div.. General Motors
Corp., Washburn & Walnut Sts., Lockport, N Y
Padiator Mfg Co 5200 W 130th

Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lock-bort, N. Y Lake Auto Radiator Mfg Co 5200 W 130th St Cleveland 30 Ohio Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich. McCord Corp Riopelle at E Grand Blvd De-troit 11 Mich Modine Mfg Co 1500 De Koven Ave Racine Wis

Wis Vis Perfex Corp., 500 W. Oklahoma Ave., Mil-waukee 7. Wis Wates-American Machine Co Beloit Wis Young Radiator Co., 709 S. Marquette St., Racine, Wis.

Adjusto Deck—See Walter Haertel Co
Angle Steel Inc., 56 Oak St., Plainwell, Mich.
"ASI"

Balloon Tire Mould Co 527 Ceres Ave Los
Angeles 13 Cal "Brown" (Tire)
Barrett-Cravens Co 639 Dundee Rd Northbrook Ill

Bay Products Inc 3001 N 16th St Philadelphia 32 Pa (Steel tool)
Berger Div Republic Steel Corp 1038 Belden
Ave N E Canton 5 Chio
Bernard Franklin Co Healey & Bath Sts
Philadelphia 37 Pa
Bernard Gloeker North East Co Robinson
& Wall Sts North East Co Robinson
& Wall Sts North East Pa
Branick Mig Co 2600 Third Ave N Fargo
N D (Tire)
Brown—See Balloon Tire Mould Co
Brown Engineering Co 131 N Third St Reading Pa (Stock)
Coats Co 3001 5th and S Fort Dodge Iowa
(Tire; sole distributors; Jack P Hennessy
Sales Co 12 Depot Sq Englewood N J)
Durlach Can & Iron Works 360 Ninth St
Brooklyn 15 N Y
Economy Engineering Co., 4611 W. Lake St.
Chicago 24, Ill. (Barrel.)
Equipto Div Aurora Equipment Co Prairie
St at Cleveland Aurora Ill
FGM—See Frick-Gallagher Mfg. Co.
Factory Service Co., 4615 N. 21st St., Mil
waukee 9, Wis, "Turner System." ADIO ACCESSORIES (Auto)
Antenna Specialists Co 12435 Euclid Ave Cleveland 6 Ohio 'Baseball'
Baseball—See Antenna Specialists Co Caseo Products Corp 512 Hancock Ave Bridgeport 2 Conn (Antennas)
Continental Carbon Div of Wirt Co 5221 Greene St Philadelphia Pa (Suppressors and condensers)
Croname Inc 6217 Howard St Chicago 48 Ill (Remote control tuning devices)
Filtron Co 131 Fowler Ave Flushing 55 L I N Y (Filters and suppressors)
Gem—See P R Mallory & Co J F D Mfg Co 6101 16th ave Brownington St (Aerials)
Mallory & Co P R 3029 E Washington St Indianapolis 6 Ind "Midgetrol" "Uni-Shaft"
"Gem" (Vibrators capacitors and volume controls and switches)
Meteor—See Star Antenna Co
Midgetrol—See P R Mallory & Co
Nemco—See Van Norman Industries Elec-J F D Mfg Co 6101 16th Ave Brooklyn 4 N Y

Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio. "Ohiohm." (Suppressors and re-

sistors.) sistors.)
Oxford Components Inc 556 W Monroe St
Chicago 6 Ill (Rear deck speaker kits)
Philco Corp Automotive Div Tioga & C Sts
Philadelphia 34 Pa (Aerials)
Pioneer Specialty Co 6537 Russell St Detroit
11 Mich (Electric and vacuum antennas)
Potter & Brumfield Inc Princeton Ind (Re-

lavs)

lays)
R.C.C.—See Radio Condenser Co.
Radio Condenser Co Copewood & Davis Sts
Camden N J "RCC" (Radio tuners)
Sprague Electric Co 244 Marshall St North
Adams Mass (Filters)

Adams Mass (Filters)
Stackpole Carbon Co., Tannery St., St.
Mary's, Pa. (Resistors.)
Star Antenna Co 1770 Lakeview Ave East
Cleveland O "Meteor" "Star" "Two-Star"
Tenna Mfg Co 7580 Garfield Blvd Cleveland
25 Ohlo (Aerials)
Tung-Sol Electric Inc 95 8th Ave Newark 4

N J (Tubes)

N J (Tubes)
Two-Star—See Star Antenna Co
Uni-Shaft—See P R Mallory & Co
Unity Mfg. Co., 2909 Indiana Ave., Chicago
16, Ili, (Aerials).
Van Norman Industries Electronics Div 186
Granite St Manchester N H "Nemco"
(Antennas condensers and suppressors)
Ward Products Corp Div of Gabriel Co
Amsterdam N Y (Aerials)





for Motor Trucks, Tractors. Combines, Industrial Trucks, Compressors, Locomotives and Power Plants.

also OIL COOLERS, INTERCOOLERS, **HEAT EXCHANGERS**

YATES-AMERICAN MACHINE CO. BELOIT, WISCONSIN

Circle 249 on Inquiry Card for more data



Circle 250 on Inquiry Card for more data

RADIO RECEIVING SETS, Auto, RASPS-See Files and Rasps Truck and Tractor

Automatic Radio Mfg. Co., 122 Brookline
Ave., Boston Mass.
Bendix Radio Div Bendix Aviation Corp E
Joppa Rd Towson 4 Md (Custom built
only)
Belgo Pedio Div. Gorgon Matter

Radio Div., General Motors Corp., Kokomo, Ind. Motorola Inc 4545 W Augusta Blvd Chicago Philco Corp Automotive Div Tioga & C Sts

Philadelphia 34 Pa Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass

RADIO SPEAKER FRAMES—See Frames Radio Speaker

RADIOS, Two-Way (Bus, Truck, Taxi, Auto, Etc.)

Bendix Radio Div Bendix Aviation Corp E Joppa Rd Towson 4 Md "Command-Air" "Dyna-Com" Comco-See Communications Co

Command-Air—See Bendix Radio Div Bendix Aviation Corp

Aviation Corp
Communications Co 300 Greco Ave Coral
Gables 14 Fla "Comco"
Du Mont Laboratories Inc Allen B 750
Bloomfield Ave Clifton N J
Dyna-Com—See Bendix Radio Div
Federal Telephone & Radio Co 100 Kingsland Rd Clifton N J
General Electric Co Communication Products Dept Electronics Park Syracuse N Y
Kaar Engrg Corp 2995 Middlefield Rd Palo
Alto Calif (For commercial vehicles)
Motorola Inc 4545 W Augusta Blvd Chicago
51 Ill
RCA Carfone—See Radio Corp of America

RCA Carfone—See Radio Corp of America Radio Corp of America Mobile Communica tions Equip Commercial Electronics Dept Camden N J "RCA Carfone" (For fleet owners)

RAILS, Robe or Coat

(Metal rails or leather or fabric straps for attaching to back or front seats) Bridgeport Fabrics Inc 165 Holland Ave

Bridgeport 9 Conn Carter Co., George R., 630 Lycaste Ave., De-troit, Mich. Schiegel Mig Co 1555 Jefferson Rd Roches-ter 23 N Y

RAILS, Rub (Pressed Steel)

(For trucks, trailers and buses)

Bath Co Cyril 32280 Aurora Rd Solon Ohlo
Cutler Metal Products Co., 1025 Line St.,
Camden, N. J.
Hart Metal Products Corp 3333 Hanmond
Ave Elkhart Ind
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohlo
Parjsh Pressed Steel Div of Dana Com-(For trucks, trailers and buses)

natis Children arish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa

RAMPS, Truck Loading

Adjust-A-Dock—See Rowe Methods Inc Adjust-A-Truck—See Rowe Methods Inc Bustin Steel Products Inc Dover N J "Bus-tin Firm Grip" Industries Inc Galion Ohio (Hy-

Cemco Industries Inc Gallon Onio (Hydraulic)
Christensen Co Wm Sherman St & M & P
Railway York Pa (Adjustable)
Colon Co Leroy L 2916 N Cloero Ave Chicago 41 Ili "Quickloader" (Hydraulic and manual)

Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Hydraulic and dock leveling) Heroo—See Karl A Herman Co

leveling)
Heroo—See Karl A Herman Co
Herman Co Karl A 412 Fuller St N E Grand
Rapids Mich "Heroo" (4 way adjustable)
Leva-Docks—See Rotary Lift Co
Loomis Machine Co 133 E Fourth St Clare
Mich "Rite-Hite" (Adjustable)
Magcoa—See Magnesium Co of America
Magline Inc 952 Murray Rd Pinconning Mich
"Magliner" (Dockboards and mobile
ramps)

ramps)

ramps)
Magnesium Co of America S222 Indianapolis
Blvd East Chicago Ind "Magcoa."
Make-It-Evener—See Revolvator Co
Quickloader—See Leroy L Colon Co
Raymond Corp 151 Madison St Greene N T
Revolvator Co U S Route 1 at 86th St North
Bergen N J "Make-It-Evener" (Hydraulic)
Rite-Hite—See Loomis Machine Co
Rotary Lift Co 1054 Kansas St Memphis 2
Ten "Leva-Dock"
Rowe Methods Inc 2534 Detroit Ave Cleveland 13 Ohlo "Adjust-A-Dock" "Adjust-ATruck" (Electric hydraulic)
Wayne Pump Co Salisbury Md

REAMERS, Chucking-See Reamers, Ma-

REAMERS, Cylinder-See Reamers and Jigs, Cylinder

REAMERS. Machine

Barber-Colman Co., 1300 Rock St., Rock-ford, Ill. lesly-Welles Corp 20 N Wacker Drive Chi-cago 6 Ill

Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich

Gammons-Hoaglund Co., 395 Main St., Man-Gammons-Hoaglund Co., 395 Main St., Manchester, Conn.
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich
Illinois Tool Works 2301 N Keeler Ave Chicago III "Illinite"
Jarvis Corp Middletown Conn
Lee Co. K. O., Congress at First Ave., S. E.,
Aberdeen S D (Expansion)

Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. McCrosky Tool Corp., S. Main St., Meadville, Pa. "Surves"

'a. "Super." tional Twist Drill & Tool Co., Rochester, Mich.
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Reasor Mfg. Co., 13th & Indiana Ave., St.
Charles, III.
Reiff & Nestor Co., Lykens, Pa.
Reitool Corp 4540 W Burnham St Milwaukee
45 Wis

Shield Brand-See Standard Tool Co snield Brand—See Standard Tool Co Standard Tool Co 3950 Chester Ave Cleva-land 14 Ohio "Shield Brand" Super-See McCrosky Tool Corp. Supersam—See Twentieth Century Mfg Co Twentieth Century Mfg Co Route 176 & Bradley Rd Libertyville II "Supersam" U S—See United States Electrical Tool Co United States Electrical Tool Co Justed States Electrical Tool Co elyn St Cincinnati 23 Ohio "U S"

REAMERS, Portable Electric

Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CF" Ingersoil-Rand Co 11 Broadway New York 4 N Y

REAMERS, Portable Pneumatic

Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio Chicago Pneumatic Tool Co 6 E 44th St N Y coll-Rand Co 11 Broadway New York 4

REAMERS, Power Drive-See Reamers, Ma-

REAMERS (Solid, Expansion and Adjustable)

Ace Drill Corp 2600 E Maumee St Adrian
Mich (Solid)
Arrow Tool & Reamer Co 711 Stephenson
Highway Troy Mich (Solid)
B-Ver—See Hjorth Lathe & Tool Co.
Barber-Colman Co., 1800 Rock St., Rockford, Ill. (Solid and adjustable.)
Beard Tool Co., L. O., Andrew & Mill Sts.,
Lancaster Pa (Solid and adjustable)
Besly-Weiles Corp 20 N Wacker Drive Chicago 6 Ill

cago 6 Ill cago 6 III Blackhawk.—See New Britain Machine Co Blue-Point.—See Snap-On Tools Corp Butterfield.—See Union Twist Drill Co But-terfield Div

Butterfield—See Union Twist Drill Co Butterfield Div
C. & T—See Chadwick & Trefethen.
Cal-Van Machine Products Inc 809 S Water
St Jackson Mich
Chadwick & Trefethen, 22 Bow St., Portsmouth. N H. "Critchley," "C & T."
Chicago-Latrobe 426 W Ontario St Chicago
10 Ill (Expansion)
Cleveland Twist Drill Co., 1242 E. 49th St.,
Cleveland 14, Ohio. "Quick-Set, "Peerless," "Spirex."
Cornwell Quality Tools Co Magadore Ohio
Critchley—See Chadwick & Trefethen.
Davis Boring Tool Div of Giddings & Lewis
Machine Tool Co 475 S Seymour St Fond
du Lac Wis
Do All Co 254 N Laurel Ave Des Plaines Ill
(Solid and expansion)
G. T. D-Ampco—See Greenfield Tap & Dio
College Tool Control Parkets College Tool College Colleg

Div
Gairing Tool Co 21221 Hoover Rd Detroit 32
Mich (Expansion)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass
"G T D-Ampco" (Solid and expansion)

Heller Tool Co Heller Dr Newcomerstown Ohlo (Chucking) Hercules-See Wnitman & Barnes, Div. of United Drill & Tool Corp. Hill Nut Co 2620 W Flourney St Chicago 12 III

Hjorth Lathe & Tool Co 12 Beacon St Wo-burn Mass "B-Ver" (Expansion and ad-

Hjorth Lathe & Tool Co 12 Beacon St Woburn Mass "B-Ver" (Expansion and adjustable) Jarvis Corp Middletown Conn (Solid) KRW—See K R Wilson Inc Keystone Reamer & Tool Co., Millersburg, Fa.
Lee Co K O Congress at First Ave S E Aberdeen S D (Expansion)
Lempco Products Inc 5490 Durham Rd Bedford Ohio (Adjustable)
McCrosky Tool Corp., S. Main St., Mead ville, Fa. "Super." (Adjustable.)
Madison Mfg Co 687 W Clay St Muskegon Mich (Adjustable)
Martindale Electric Co., 1340 Hird Ave. Cleveland 7, Ohio. National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.

National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blaekhawk" & "New Britain"
O K Tool Co Miiford N H (Adjustable)
Peerless—See Cleveland Twist Drill Co. Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.
Quick-Set—See Cleveland Twist Drill Co.
Reasor Mfg Co 13th & Indiana Ave St Charles
Ill (Expansion; also solid valve guide)
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp 4540 W Burnham St Milwaukee
46 Wis

Reitool Corp 4540 W Burnham St Milwausee 46 Wis Shearcut Tool Co 7045 Darby Ave Reseda Caiff "Shearcutter" Shied Brand—See Standard Tool Co. Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point." Spirex—See Cleveland Twist Drill Co. Standard Tool Co. 3550 Chester Ave Cleveland 14 Ohlo "Shield Brand" Staples Tool Co. 2352 Glendale-Milford Rd. Cincinnati 15 Ohlo Super—See McCrosky Tool Corp. T-J—See Tomkins-Johnson Co. 70mkins-Johnson Co. 617 N Mechanic St. Jackson Mich. "T-J" (Solid with interchangeable heads)

Tomkins-Johnson Co 617 N Mechanic St Jackson Mich "T-J" (Solid with interchangeable heads)
Union Twist Drill Co Monroe St Athol Mass Union Twist Drill Co Butterfield Div Derby Line Vt "Butterfield" (Solid and expansion)
Vaco Products Co 317 E Ontario St Chicago

Vermont Tap & Die Corp Main & Grove Sts Lyndonville Vt (Solid)
W.S. See Wendt Sonis Co.
Watervilet Tool Co 1346 Broadway Albany
4 N f

Watervilet Tool Co 1846 Broadway Albany 4 N 7
Waukesha Cutting Tools Inc Midland & Pearl Sts Waukesha Wis
Wendt-Sonis Co., Hannibal, Mo. "W-S."
(Solid carbide tipped.)
Wesson Tool Co 12200 Woodward Heights
Blivd Ferndale 20 Mich (Solid)
Wetmore Reamer Co., 420 N. 27th St., Milwaukee S., Wis. (Adjustable.)
Whitman & Barnes Div of United Drill & Tool Corp 40085 Plymouth Rd Plymouth Mich "Hercules" (Solid and expansion)
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman-Brown" (Adjustable floating)
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.
Wilson Inc K R Arcade N Y "KRW"
Zoerman-Clark Mfg Co 824 N Mechanic St Jackson Mich

REAMERS and JIGS, Cylinder

Wetmore Reamer Co 420 N 27th St Milwau-kee 8 Wis (Reamers)

REAMING BUSHINGS-See Bushings, Jig

RECLAIMERS, Cutting Oil

American Machine & Metals Inc Tolhurst Centrifugal Div East Moline III "Tolhurst" Barrett Co Leon J 1477 Grafton St Woi-cester Mass "Barrett" "Grafton" (Cen-

Inc 1302 E Creighton Ave Ft Wayne

Bowser Inc 1302 E Creighton Ave Ft Wayne 2 Ind 32 Ind 32 Ecreighton Ave Ft Wayne 2 Ind Corp. Hilliard Corp. 13 W. Fourth St., Elmirs. N. Y. "Hilco." Hoffman—See United States Hoffman Machinery Corp

Lavin Machine & Mfg Wks A M Hatboro

Tolhurst-See American Machine & Metals

United States Hoffman Machinery Corp Industrial Filtration Div 103 Fourth Ave N Y 3 N Y "Hoffman"

RECORDERS, Production (Machinery)

Bristol Co Waterbury 20 Conn Service Recorder Co 1013 Rockwell Ave Cleveland 14 Ohio "Service Recorder"

RECORDERS, Vehicle Movement

(For recording time vehicle is used) (See also Meters, Engine Hour (Truck)

(See also Meters, Engine Hour (Truck)
Engier Instrument Co 250 Culver Ave Jersey
City 5 N J
Sangamo Electric Co Converse & N 10th Sta
Springfield III "Sangamo Tachograph"
Service Recorder Co 1013 Rockwell Ave
Cleveland 14 Ohio "Servis"
Servis—See Service Recorder Co.
United States Taximeter Co., 514 W. 54th St.,
New York 19, N. Y. "Ustclock," "Ustocograph," "Ustcometers."
Ustclock—See United States Taximeter Co.

Ustclock—See United States Taximeter Co. Ustcograph—See United States Taximeter Ustcometers-See United States Taximeter REELS, Lamp (Automatic Extension)

RECTIFIERS, AC-DC Charging Sys-

tem (Auto) Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind Leece-Neville Co 1374 E 51st St Cleveland 2 Ohio

RECTIFIERS, OIL—See Filters, Oil (For Attaching to Engine)

REDUCERS, Speed

Abart Gear & Machine Co 4822 W 16th St Chicago 50 Ill

Chicago 50 fil Allis Co., Louis, 427 E. Stewart St., Mil-wauk. 9 7, Wis. American Pulley Co., 4200 Wissahickon Ave., Philadelphia 29, Pa. "Shaft-King." Boston Gear Works. Div. Murray Corp., 14 Hayward St., Quincy 71, Mass "Reduc-tor"

Brad Foote Gear Works Inc 1309 S Cicero Ave Cicero 50 III Braden Winch Co Box 547 Broken Arrow

Brady Conveyors Corp 4244 Dempster St

Brady Conveyors Corp 4244 Dempster St Skokle III Chicago Gear Works, 440 N. Oakley Blvd., Chicago II. III. Cleveland Worm & Gear Co 3274 E 80th St Cleveland 40 Ohlo "Cleveland" "Speedaire" Cotte Drive—See Michigan Too' Co., Cond Drive Div Cotta Transmission Co 2340 11th St Rock-ford III

ford III
Cy-lent—See Timing Gears Corp
Dodge Mfg Corp 500 Main St Mishawaka
Ind "Torque-Arm"
Eberhard-Denver—See Morse Chain Co
Electric Motor Corp Div of Howard Industries Inc 1760 State St Racine Wis
Fairbanks Morse & Co 600 8 Michigan Ave
Chleago 5 II
Falk Corp 3001 W Canal St Milwaukee Wis
Farrel-Birmingham Co 97 Main St Ansonia
Conn

Federal Seal & Gear Corp 522 N Krueger St

Kendallville Ind oote Bros Gear & Machine Corp 4545 8 Western Blvd Chicago 9 Ill "Line-O-Power" "Hygrade" "Maxipower"; "Vari-

Western Blvd Chicago in Navipower'; "VariMount" (Variable)
General Electric Co Apparatus Sales Div
1 River Rd Schenectady 5 N Y
Hygrade—See Foote Bros Gear & Machine
Corp
Jones Machinery Div Hewitt-Robins Inc 4401
Roosevelt Rd Chicago 24 Ill
Lee Co., K. O., Congress at First Ave., S. E.,
Aberdeen, S. D.
Lima Electric Motor Co Findlay Rd Lima
Ohlo

Ohio ine-O-Power—See Foote Bros Gear & Machine Corp chine Corp Link-Belt Co Prudential Plaza Chicago 1 Ill Lovejoy Flexible Coupling Co 5000 W Lake St Chicago 44 Ill Maxipower—See Foote Bros Gear & Machine

Corp Michigan Tool Co., Cone Drive Div., 7171
McNichols Rd., E. Detroit 12, Mich. "Cone-

Drive."
lorse Chain Co Ithaca N Y "Eberhardt-M

Multi-Mount-See Sterling Electric Motors

Inc
Ohio Gear Co., 1333 E. 179th St., Cleveland
10, Ohio.
Philadelphia Gear Works, Erle Ave. & G St.,
Philadelphia 34, Pa.
Rampe Mfg Co 3320 St Clair Ave Cleveland

Rampe Mfg Co 3320 St Clair Ave Cleveland 10 Ohlo
Reductors—See Boston Gear Works Div
Murray Corp
Rockford Clutch Div Borg Warner Corp 1319
18th Ave Rockford III
Saco—See Stephens-Adamson Mfg. Co.
Shaft-King—See American Pulley Co
Stephens-Adamson Mfg. Co., 150 Ridgeway
St., Aurora, III. "Saco."
Sterling Electric Motors Inc 5401 Telegraph
Rd Los Angeles 22 Calif "MultiMount"
Timing Gears Corp 2801 W Fulton St Chicago 12 III "Cy-lent" (Worm gear)
Torque-Arm—See Dodge Mfg Corp
Tulsa Winch Div of Vickers Inc 815 E First
St Tulsa 20 Okla
Varl-Mount—See Foote Bros Gear & Machine Co
Westinghouse Electric Corp 3 Gateway Cen-

Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa Winsmith Inc Eaton St Springville N Y

REELS, Coiled Stock (For Presses) Sesco Inc 8881 Central Ave Detroit 4 Mich Wittek Mfg Co 4305 W 24th Pl Chicago 23 Ill

REELS, Lamp (Automatic Extension)
Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Appleton Electric Co., 1701 Wellington Ave.
Chicago 13, Ill. "Reelite."
Benjamin Reel Products Inc., 10700 Broadway. Cleveland 25, Ohlo.
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa. "Reelectric."
Cordomatic Div of Vacuum Cleaner Corp of America 1724 W Indiana Ave Philadelphia 32 Pa. "Cordomatic"
Reelectric—See Black Mfg. Co.
Reelite—See Appleton Electric Co.
Zoo—See Aero-Motive Mfg. Co.

REFLECTORS, Safety

(For attaching to cars and trucks)

Affor attaching to cars and trucks)
American Automatic Devices Co Harrison
Throop & Congress Sts Chicago 7 Ill "King
Bee Hy-Power" "King Bee Foto-Ray"
Amerbury Metal Products Co., 39 Oakland
St., Amesbury, Mass.
Anthes Force Oiler Co 20th St & Ave M Ft
Madison Iowa
Arrow Safety Device Co., Mt. Holly, N. J.
"Arrowlite"

"Arrowitte"

Auto Lamp Mfc Co 2909 S Indiana Ave Chi-cago 9 Ill (For trucks)

Bolser Corp., S. Main St., Cedar Falls, Iowa.

Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)
Brown Co E C Canandaigua N Y "Hi-Beem"
Catseye—See Columbus Metal Products Co. Cole Automotive Products Co P O Box 56
Alfred St Station Detroit 1 Mich. (For trucks, trailers and buses.)
Columbus Metal Products Co 1341 Norton Ave Columbus & Ohio "Catseye"
Dietz Co R E 225 Wilkinson St Syracuse 1
N Y (For trucks)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "There Ey."
Eagle Brand—See U. S. Tool & Mfg. Co.
Electroline Mfg Co 2622 E 51st St Cleveland
4 Ohio

4 Ohin Glo-Brite—See Johnson Glass & Plastic Corp riffin Lamp Co 401 S Third St Hamilton,

Griffin Lamp Co 401 S Annual Control Mrg Co Lafayette & Grandview Aves Relievue Ky Relievue Ky General Motors Corp 25th

Gulde Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind Gulotta Co Charles 81-20 Cooper Ave Glen-dale 27 NY

Gulotta Co Charles Gulotta Co Charles Gulotta Co Charles Gulotta Co Charles Gulotta Co Chief Co Charles Gulotta Co Chief Co Chief

K-D Lawy Ohio K-S-See Kilborn-Sauer Co K-S-Sauer Co Post Rd Fairfield Conn "K-S" (Red, green or amber reflecting

glass) King-Bee—See American Automatic Devices Co Miro-Flex Co 1824 E 2nd St Wichita 7 Kans

Miro-Flex Co 1824 E 2nd St Wichita 7 Kans National-See Wheel Parts & Mfg Co Norlipp Co., 5925 S. Lowe Ave., Chicago 21 III. (For trucks) PMCO—See Peterson Mfg Co Persons-Majestic Mfg. Co., 54 Commercial St. Worcester, Mass. Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo "PMCO" (For cars and trail-ers)

ers) & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.

Saf-T-Ray-See Superior Parts Mfg Corp Snow-Craggs Corp 5840 S Oakley Ave Chi-cago 36 Ill

cago 36 III

Sparton Automotive Div of Sparton Corp
Jackson Mich (Red and amber for trucks)

Speaker Corp J W 3059 N Weil St Miiwaukee 12 Wis
Stimsonite Div of Elastic Stop Nut Corp of
America 3445 N Kimball Ave Chicago 18 III

Superior Parts Mfg Corp 1922 W Grand Ave
Chicago 22 III "Saf-T-Ray"
Tiger Ey—See Do-Ray Lamp Co.

U S Tool & Mfg Co 1832 N Sheffield Ave
Chicago III "Eagle Brand" (For trucks and
buses)

Chicago III League March ave N Y buses)
Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National" (Bus truck and trailer)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (For trucks.)

REFRIGERANTS. Air Conditioning (Auto and Truck)

du Pont de Nemours & Co E I Freon Prod-ucts Div Wilmington 98 Del "Freon" Eston Chemicals Div American Potash & Chemical Corp 3100 E 26th St Los Angeles 23 Calif "Charg-A-Can" Freon—See E I du Pont de Nemours & Co Pure Carbonie Co 150 E 42nd St N Y 1 N Y

(Carbon dioxide dry ice trucks)

REFRIGERATING UNITS. Truck and Trailer

Air Induction Corp 122 W 20th St New York

1 N Y
American Mfg Co P O Box 989 Montgomery
2 Ala "Arctic Traveler" (Gasoline hydraulic and electric driven)
Arctic Traveler-See American Mfg. Co.
Brunner Div Dunham-Bush Inc 179 South
St West Hartford 10 Conn
Cel-Line—See Dole Refrigerating Co
Cold-Cel—See Dole Refrigerating Co
Cold-Cel—See Dole Refrigerating Co
Coldmobile Div Union Asbestos & Rubber
Co 2900 W Vermont St Blue Island III
(Mechanical)
Copeland Refrigerator Corp Short Clinton

Copeland Refrigerator Corp Short Clinton

St Sidney Ohlo
Dole Refrigerating Co 5962 N Pulaski Rd
Chicago '46 Ill "Cel-Line" & "Truk-Cel"
(Truck high temp; "Cold-Cel" low temp

(Truck high temp; "Cold-Ce!" low temp plates)
Foster-Bilt Bunkers Inc 1238 W Harrison St Chicago 7 III (Dry ice)
Frank-Dewey Co 12334 Stark Rd Livonia Mich (Electric)
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Hunter Mfg Co 30525 Aurora Rd Solon Ohio "Hunter Cargo Cooler" (Mechanical)
Keco Industries Inc 2438 Beekman St Cincipnati 14 Ohio

Keco Industries Inc 2438 Beekman St Cincinnati 14 Ohio
Kold Hold Div of Tranter Mfg Inc 620 E
Hazel St Lansing 4 Mich "Kold-Hold"
"Kold Trux"
Lehigh Mfg Co Div of Lehigh Inc Lehigh
Dr Easton Pa "Lehigh Blu-Cold"
McGraw-Edison Co Clark Div 520 W 65th
St Chicago 38 Ill "Tropic-Aire-Carrier"
(Trailer)

(Trailer)
eyer Body Co., 218 Elm St., Buffalo 3,
N. Y. Tecumseh Tecumseh Products Co., Tecumseh, Mich. Thermo King Corp 44 S 12th St Minneapolis

3 Minn Theurer Wagon Works, Inc., 601 W. 56th St New York 19 N Y Tropic-Aire-Carrier—See McGraw-Edison Co Tru Kooler Inc 135 S Frederick Ave Oelwgin Tru Kooler Inc 135 S Frederick Ave (
Iowa
Truk-Cel-See Dole Refrigerating Co.

REFRIGERATION COMPRESSORS—See Compressors, Refrigeration (Auto)

(See also Carburetors, Butane, Propane & LP-Gas)

Algas—See American Liquid Gas Corp American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif "Algas" (Regula-

Beam Products Mfg Co 3040 Rosslyn St Los

Beam Froducts Mig Co 3040 Rossiyn St Los Angeles 55 Calif Ensign Carburetor Co 1551 E Orangethorp Ave Fullerton Calif J & S Carburetor Co 2634 N Beckley St Dal-

Jac B Carouretor Co sees to Because States and Las 2 Tex Marvel-Schebler Products Div Borg-Warner Corp Decatur III (Regulators and adaptors) Zenith Carburetor Div of Bendix Aviation Corp 696 Hart Ave Detroit 14 Mich

REGULATORS, Air Pressure

Aro Equipment Corp Bryan Ohio Crown—See Hannifin Co Hannifin Co 615-D S Wolf Rd Des Plaines Ill "Crown"

eller Tool Div Gardner Denver Co 1233 Fulton St Grand Haven Mich odernair Corp 400 Freas St San Leandro Calif Norgren Co C A 3400 S Elati St Englewood

Wilkerson Corp 1601 W Girard Ave Engle-

REGULATORS, Fuel Pressure

Alondra Sales Inc 959 Crenshaw Blvd Los Angeles 19 Calif "Filt-O-Reg" Angeles Filt-O-Reg Filt-O-Reg—See Alondra Sales Inc Milemaster Inc 6 N Michigan Ave Chicago

REGULATORS. Furnace (Electric)

Bristol Co Waterbury 20 Conn G-E-See General Electric Co G-E—See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Leeds & Northrup Co., 4966 Stenton Ave., Philadelphia, Pa. "Micromax." Micromax—See Leeds & Northrup Co. Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa.

REGULATORS, Generator Current and Voltage (Auto)

American Bosch Div American Bosch Arms
Corp 3664 Main St Springfield 7 Mass
American Motor Products Co., Fond du Lac,
Wis. "Ampco."
Ampco—See American Motor Products Co.
Arrow Armatures Co 15 Fordham Rd Boston
84 Mass

Blue Strenk-See Standard Motor Products, Hersee Co 20 Old Colony Ave Boston

Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn Electra Mfg Co 800 N 21st St Independence Kans
F. & B. Mfg Co 4248 W Chicago Ave Chicago 51 III "Filko"
Filko—See F. & B. Mfg. Co.
Freedco Products, Inc 36-08 33rd St Long Island City 6 N Y
Guaranteed Parts Co., Seneca Falls, N. Y.
Illaco—See Illinois Accessories Co
Michigan Ave Chicago 5 III (Voltage)
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn
N
J
Lecce-Neville Co 1374 E 51st St Cleveland
§ Ohio

Lecce-Neville Co 1374 E 51st St Cleveland 3 Ohio
M D Parts Mfg Co 4395 E Olympic Bivd Los
Angeles Calif
Machined Parts Corp 6209 Hamilton Ave
Detroit 2 Mich "Mapco"
Mapco-See Machined Parts Corp.
National—See Wheel Parts & Mfg Co
National Ignition Mfg Co 521 W 23 St New
York 11 N Y "Nimeo"
Niehoff & Co., C. E., 4925 W. Lawrence
Ave., Chicago 30, III.
Nimco—See National Ignition Mfg Co
Ohio Mfg Co 924 S Theresa Ave St Louis
3 Mo
P & D Mfg. Co., 1902 Steinway St., Long
Island City, L. I., N. Y.
Paragon Products Corp 140 Astor St Newark 5 N J "Yulcan" (Sole distributors
Vulcan Motor Products Inc 1060 Broad St
Newark 2 N J)
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 3, Brooklyn 33, N. Y.
R.B-M Div., Essex Wire Corp., Chestnut &
Hanna Sts., Logansport, Ind.
Shurhit Products Inc 846 S Market St Waukegan III
Sorenson Mfg Co P 32-31 57th St Woodside
77 N Y
Standard Motor Products Inc 37-18 Northern Blyd Long Island City L I N Y "Blue

77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak"
Stan-Test Corp., 4830 W. Harrison St., Chicago 44, Ill.
Super Glo—See Wells Mfg Corp
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
valley Forge Products Inc 370 19th St Brooklyn 15 NY
vulcan—See Paragon Products Corp
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis "Super Glo" "Wells"
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"

REGULATORS, Humidity

Bristoi Co Waterbury 20 Conn Minneapolis-Honeywell Regulator Co Indus-trial Div Wayne & Windrim Aves Phila-delphia 44 Pa delphia 44 Pa owers Regulator Co 3400 Oakton St Skokie

Weston Instruments Div of Daystrom Inc 614 Frelinghuysen Ave Newark 12 N J

REGULATORS, Oil Temperature (Engine)

G & O Mfg. Co., 138 Winchester Ave., New

Haven, Conn.
Harrison Radiator Div General Motors Corp
Washburn & Walnut Sts Lockport N Y
Powers Regulator Co 3400 Oakton St Skokie

Yates-American Machine Co Beloit Wis Young Radiator Co., 709 S. Marquette St., Racine, Wis.

REGULATORS, SEAT-See Adjusters, Driv-

REGULATORS, Speed (Electric Motor)

G-E-See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa

REGULATORS, Temperature

REGULATORS, Temperature
Barber-Colman Co., 1300 Rock St., Rockford, II.
Bristol Co Waterbury 20 Conn
Cenco-See Central Scientific Co.
Central Scientific Co 1700 Irving Park Road
Chicago 13 III "Cenco"
Electronic Control Corp 1573 E Forest St
Detroit 7 Mich (Photo-electric)
Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1
Tenn "Sylphon"
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Johnston Mfg. Co., 2525 E. Hennepin Ave.
Minneapolis, Minn.
Leeds & Northrup Co., 4966 Stenton Ave.

Minneapolis, Minn.
Leeds & Northrup Co., 4966 Stenton Ave.,
Philadelphia, Pa. "Micromax."
Micromax—See Leeds & Northrup Co.
Powers Regulator Co 3406 Oakton St Skokle
III

III
R-K.—See Ruggles-Klingemann Mfg Co
Ruggles-Klingemann Mfg. Co., Foster Court,
Salem, Mass. "R-K."
Sarco Co 635 Madison Ave New York 22
N Y

N Y Sylphon—See Fulton Sylphon Div., Robert-shaw-Fulton Controls Co. Taylor Instrument Companies, 95 Ames St., Rochaster 1, N. Y. Westinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa.

Veston Instruments Div of Daystrom Inc 614 Frelinghuysen Ave Newark 12 N J

REGULATORS. Top

Huppower Div Hupp Corp 7450 Melville St Detroit 17 Mich (Electric) Jacobs Co F L 1048 Spruce St Detroit 83 Mich (Electric)

REGULATORS, WATER CIRCULATING-See Thermostats, Water Circulating

REGULATORS, Window

Ainsworth-Precision Castings Co Div of Harson Corp 2200 Guardian Bldg Detroit 26 Mich (To order) Detroit Harvester Co, Dura Div., 4506 De-troit Ave., Toledo, Ohio. (Manual and automatic.)

automatic.)
Electric Auto-Lite Co Toledo 1 Ohio
Ferro Stamping Co 1367 Franklin St Detroit 7 Mich (Manual and electric)
Hancock Mfg Co 225 N Horton St Jackson

Mich
Hansen Mfg. Co., A. L., 5037 Ravenswood
Ave., Chicago 40, III. (Commercial body.)
Huppower Div Hupp Corp 7450 Meiville St
Detroit 17 Mich (Electric and manual)
Jacobs Co., F. L., 1048 Spruce St., Detroit 1.
Mich. (Electric.)
Lift-O-Matic-Sec Trice Products Corp.
Preferred Electric & Wire Co Bush Terminal Bidg #8 Brooklyn 32 N Y
Regal Motor Products Corp 6325 Grand River
Ave Detroit 8 Mich
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Trice Products Corp., 317 Washington St

land 2 Ohio
Trico Products Corp., 817 Washington St.,
Buffalo 3, N. Y. "Lift-O-Matic," "VentO-Matic." (Vacuum operated)
Vent-O-Matic—See Trico Products Corp
Young Windows Inc 810 Biddle Ave Rear
Ardmore Pa (Crankless)

RELAYS, Horn and Light

American Motor Products Co., Fond du Lac. Wis.
Blue Streak—See Standard Motor Products.

Inc.
Delco-Remy Div General Motors Corp 2461
Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Cons
Electra Mfg Co 800 N 21st St Independence

Electra Mfg Co 800 N 21st St Independence Kans
F & B Mfg Co 4248 W Chicago Ave Chicago
51 Ill "Filko"
Filko—See F. & B. Mfg. Ce.
Freedco Products Inc 35-08 33rd St Long
Island City 6 N Y
Guaranteed Parts Co., Seneca Falls, N. Y.
Jublies Mfg Co 1929 S 20th St Omaha 9
Neb (Horn)
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J
M D Parts Mfg Co 4395 E Olympic Blvd Los
Angeles Cailf
Machined Parts Corp., 6209 Hamilton Ave.,
Detroit 2, Mich. "Mapco."
Mapco—See Machined Parts Corp.
National—See Wheel Parts & Mfg Co
New Tork Coil Co 42 Second Ave Phoenixville Pa "Nyco"
Niehoff & Co., C. E., 4925 W. Lawrence
Ave., Chicago 30, Ill.
Nyco—See New York Coil Co
Ohio Mfg Co 924 S Theresa Ave St Louis 2

Ohio Mfg Co 924 S Theresa Ave St Louis 3

Nyco-See New York No. 8, Process Ave St Louis 3 Mo
Ohio Mfg Co 924 S Theresa Ave St Louis 3 Mo
Otty L I N Y
Paragon Products Corp 140 Astor St Newark 5 N J "Yulcan" (Sole distributors
Vulcan Motor Products Inc 1060 Broad St
Newark 2 N J)
Pollak Corp Joseph 75 Freeport St Boston 22
Mass (Horn)
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut &
Hanna Sts., Loganport, Ind.
Sorensen Mfg Co P 22-31 57th St Woodside
77 N Y
Sparton Automotive Div of Sparton Corp

Jackson Mich (Horn)
Standard Motor Products Inc 37-18 Northern
Blvd Long Island City 1 L I N Y "Blue

Streak"
tan-Test Corp 4630 W Harrison St Chicago

Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y

Seneca Falls N Y Valley Forge Products Inc 370 19th St Brook-lyn 15 N Y Vulcan—See Paragon Products Corp Wells Mfg Corp 12 S Brooke St Fond du Lac Wis Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National"

RELAYS, Overload (Adjustable)

Assembly Products Inc 75 Wilson Mill Rd Chesterland 80 Ohio

RELAYS, Switching

Potter & Brunfield Inc Princeton Ind REMOVERS, OIL AND GREASE-See Selvents, Oil, Carbon and Grease Removing

RESINS, MOLDED AND CAST - See under PLASTICS

RESINS, Shell Molding (For Castings) Reichhold Chemicals Inc RCI Bldg White Plains NY "Foundrea"

RESINS, Synthetic (For Bonding, Impregnating, Laminating and Protective Coating)

Acryloid—See Röhm & Haas Co
Amberlite—See Röhm & Haas Co
Amberlite—See Röhm & Haas Co
Amberlite—See Röhm & Haas Co
Amberloi—See Röhm & Haas Co
American Cyanamid Co Plastics & Resins
Div 30 Rockrefeller Plasa New York N Y
"Beetle" "Cycopol" "Cymel" "Cyzaci"
"Laminac" "Melurac" "Resyl" "Urac"
American Metaseal of Detroit 18666 Fitspatrick Ave Detroit 28 Mich "Metaseal"
Araldite—See Cha Froducts Corp
Armstrong Products Co P O Box 1-B Warsaw Ind
Bakelite Co 20 E 42nd St New York 17 N Y
Beckosel—See Reichhold Chemicals Ine
Beetle—See American Cyanamid Co
Borden Chemical Co Div of Borden Co 350
Madison Ave N Y 17 N Y "Durite" (For
bonding brake lining and clutch facings)
Ciba Products Corp Kimberton Pa "Araldite"
Cycopol—See American Cyanamid Co.

Cycopol-See American Cyanamid Co.

Cyzac—See American Cyanamid Co Cymel—See American Cyanamid Co Dow Chemical Co Midland Mich (Silicone) Dow Corning Corp Midland Mich (Silicone)

Dow Cremical Co Middiand Mich (Silicone bonding, impregnating and laminating) Duraplex—See Röhm & Hasa Co Durez Plastics Div Hooker Electrochemical Co 1910 Walck Rd North Tonawanda N Y "Durez"; "Hetron" (Fire resistant for laminating and molded parts) Durite—See Borden Chemical Co Epibond—See Furane Plastics Inc Epocast—See Furane Plastics Inc Epocast—See Furane Plastics Inc Furane Plastics Inc General Elactric Co General Electric Co General Electric Co General Electric Co General Electric Co Chemical & Metallurgical Div Plastics Dept 132 S Water St Decatur

Div Plastics Dept 182 S Water St Decaur III "G-E" Glidden Co 900 Union Commerce Bldg Cleve-land 14 Ohio

Opaion—see Monsanto Chemical Co Plastic Div Paraplex—See Rohm & Haas Co Permafuse Corp 675 Main St Westbury N Y Plaskon—See Plastics & Resins Sales Plastics & Resins Sales Plastics & Coal Chemicals Div Allied Chemical Corp 40 Rector St N Y 6 N Y "Plaskon"
Plioblem—See Goodyear Tire & Rubber Co. Pliolite—See Goodyear Tire & Rubber Co. Pliolitu—See Goodyear Tire & Rubber Co. Plyophen—See Reichhold Chemicals Inc Raybestos Div of Raybestos—Manhattan Inc 75 E Main St Stratford 2 Conn Reichhold Chemicals Inc RCI Bids White Plains NY "Polyphen" "Beckosol" Resimen—See Monsanto Chemical Co Resinox—See Monsanto Chemical Co Plastics Div

Resinox—See Monsanto Chemical Co Plastics
Div
Resyn—See National Adhesives Div. of National Starch Products, Inc.
Rezolin Inc 1851 18th St Santa Monica Calif
Rezyl—See American Cyanamid Co.
Röhm & Haas Co 222 W Washington Sq Phila
6 Pa ("Acryloid" "Amberoli" "Duraplex"
"Paraplex" "Uformite" Protective coating:
"Amberlite" "Uformite" plywood bonding)
Silicones Div Union Carbide Corp 30 E 42nd
St N v 17 N v "Union Carbide" Co.
UBS Chemical Corp del Main St Cambridge
Mass "Ubatol" Chemical Corp
Uformite—See Röhm & Haas Co
Union Carbide Corp
Urac—See American Cyanamid Co

Trac—See American Cyanamid Co

Trac—See American Cyanamid Co

RESISTORS, Ignition

Carter Parts Co 3401 W Madison St Skokie Carter Parts Co 3401 W Madison St Secure III
D S M Electric Co 6209 John Lodge Expressway Detroit 2 Mich
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Maliory & Co P R 3029 B Washington St
Indianapolis 6 Ind
Preferred Electric & Wire Co Bush Terminal
Bldg #8 Brooklyn 22 N Y

RESTS. Arm

Admiral—See Consolidated Admiral Co Arvey Corp., 6401 E. Nevada Ave., Detroit 34, Mich. "Arveyware." Automotive Industries Inc Owendale Mich (Truck)
Consolidated Admiral Co 218 W 65th St
N Y N Y "Admiral"
Goodrich Sponge Products B F Howe Ave
Shelton Conn "Texfoam"
Sponge Aire Seat Co., 166 Chandler St., Buffalo 7, N. Y. (Sponge rubber.)
Texfoam—See B F Goodrich Sponge Prod-(Truck)

RETAINERS, Ball

Accurate Products Inc 135 N Spring St Indianapolis Ind Actna Ball & Roller Bearing Co Div of Parkersburg-Actna Corp 4600 Schubert Ave Chicago 39 Ill

Crosby Co 183 Pratt St Buffalo 5 N Y Hartford Steel Ball Co Drawer "Q" Sta A Hartford 6 Conn National Bearing Co., 637 Lancaster Ave..

Lancaster, Pa.
Nice Ball Bearing Co., 30th St. & Hunting
Park Ave., Philadelphia 40, Pa.

RETAINERS, Headlining

Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.

RETAINERS, OIL AND GREASE—See Rings and Seals, Oil and Grease Retaining

RETAINERS, Valve Spring

RETAINERS, Valve Spring

Bull Dog—See Jambor Tool & Stamping Co.
Chicago Screw Co Div of Standard Screw
Co 2701 Washington Bivd Bellwood III
Ertel Products Co Repl Div of Ertel Mig
Corp 1402 E 20th St Indianapolis 7 Ind
Jambor Tool & Stamping Co., 3087 N. 30th
St., Milwaukee 10, Wis. "Bull Dog."
Thompson Products Div Thompson Products
Inc 23555 Euclid Ave Cleveland 17 Ohio
Toledo Steel Products Co 6402 Cedar Rd
Cleveland 3 Ohio
Wolverine Gear & Parts Co Osseo Mich Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohlo
Goodyear Tire & Rubber Co Chemical Div
E Market St Akron 16 Ohlo "Pilobond"
"Pilolite" "PiloTuf"
Hetron—See Durez Plastics Div
Kish Industries Inc 1301 N Turner St Lansing 6 Mich (Epoxy)
Laminac—See American Cyanamid Co
Melurac—See American Cyanamid Co
Medurac—See American Medaseal of Detroit
Minnesota Mining & Mig Co 900 Fauquier
St St Paul 6 Minn "3-M"
Monsanto Chemical Co Plastics Div Springfield 2 Mass "Resinox," "Resimene,
"Opalon"
National Adhesives Div. of National Starch
Products Inc., 270 Madison Ave., New
York 16, N. Y. "Resyn."

Naugatuck Chemical Div of U S Rubber Co
523 Elm St Naugatuck Connanto Chemical Co Plastic
Dalon—See Monsanto Chemical Co Plastic
Co 2701 Washington Blvd Belle
Ertel Products Co Repl Div of
Corp 1402 E 2014 St Indianapol
Jambor Tool & Stamping Co, 301
St. Milwaukee 10, Wis. "Bull O'Rompson Products Div Thompson
Inc 23555 Euclid Ave Cleveland 1
Toledo Steel Products Co 6402
Cleveland 3 Ohlo
Wolverine Gear & Parts Co Osseo
RETARDERS, Hydraulic (Auto & Wall of Control of Compson Products Inc 23555 Encorporation (Machinery)
Revolution (Machinery)
Revolution (Machinery)
Rims, Wheel (Truck and Bus)
Cleveland Welding Div American

RETARDERS, Hydraulic (Auto & Truck) Parkersburg Rig & Reel Co Parkersburg W Va

hompson Products Inc 23555 Euclid Ave Cleveland 17 Ohio (Truck)

REVOLUTION COUNTERS—See Counters, Revolution (Machinery)

Cleveland Welding Div American Machine & Fdry Co W 117th St & Berea Rd Cleve-land 11 Ohio "Cleve-Weld" (Truck tractor land 11 Ohi and trailer) Cleve-Weld—

and trailer)
Cleve-Weld-See Cleveland Welding Div
Firestone Steel Products Co 1600 Firestone
Parkway Akron I Ohio (Truck and bus)
Goodyear Tire & Rubber Co., E. Market St.
Akron 16, Ohio, (Bus and truck.)
Kelsey-Hayes Co., 2600 Military Ave Detroit
32 Mich.

Motor W Wheel Corp 735 E Saginaw St Lansing

RING GAGES-See Gages, Plug and Ring

ING GEARS—See Gears, Flywheel Ring: also Gears and Pinions, Rear Axle

Ace Products Co 1820 N 12th St Toledo 1
Ohio "Welco"
American Hammered Automotive Replacement Div of Sealed Power Corp 2001 Sanford St Muskegon Mich
Burd Piston Ring Co Box 567 Eau Claire
Wis "Burd Graf-Flox"
Cord Piston Ring Mfg Co 1351 S Olive St
Los Angeles 15 Calif
Fit-Well—See Valv-Tite Piston Ring Co.
361 Piston Ring Co 2645 S State St Chicago
18 Ill
Gilpak Automotive Products Div Booker

Gill Piston Ring Co 2645 S State St Chicago 18 III
Glipak Automotive Products Div Packer Auto Parts Inc Roselle N J
HT-100—See Wausau Motor Parts Co
Haling Co. 1061 First Ave., Rochester, Minn.
Hastings Mig Co N Hanover St Hastings Mich
Hico—See Lion Auto Parts & Mfg. Co.
International Parts Corp 11th & State Sts Chicago 5 III
Layr-Bilt—See Valv-Tite Piston Ring Co
Leak Proof—See McQuay-Norris Mfg Co
Lon Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 III "Hico"
Luthy Co F A 302 Cooper St Jackson Mich
McQuay-Norris Mfg Co 2320 Marconi St St
Louis 10 Mo "Leak Proof"
Monotized Oilsavr—See Wausa: Motor Parts
Co

CO
Moog Industries Inc 6650 Easton Ave St
Louis 14 Mo
Muskegon Piston Ring Co Muskegon Div
Sixth & Alpha Sts Muskegon Mich
Non-Breakable—See Steel-Bronze Sealing

Sixth & Alpha Sts Muskegon Mich
Non-Breakable—See Steel-Bronze Sealing
Rings Co
Oil Savr—See Wausau Motor Parts Co
Pacific Piston Ring Co., 1410 S. Los Angeles
St. Los Angeles 15, Calif.
Pedrick—See Wilkening Mfg. Co.
Perfect Circle Corp., 552 S. Washington St.,
Hagerstown, Ind.
RX—See Valv-Tite Piston Ring Co.
Ramso 10-Up—See Ramsey Corp
Ramsey Corp 3693 Forest Park Blvd St Louis
8 Mo "Ramco 10-Up"
Republic Engrg & Mfg Co 6565 Wells Ave
St Louis 14 Mo
Richmond Ring Co., Souderton, Pa.
Roberts Mfg Co 118 Monroe St St Charles Mo

Royal Crown—See Valv-Tite Piston Ring Co. Sealed Power Corp 2001 Sanford St Mus-kegon Heights Mich Simplex Piston Ring Mfg Co 12301 Benning-ton Ave Cleveland 11 Ohlo Steel-Bronze Seating Rings Co 540 S Meridian St Indianapolis 25 Ind "Non-Breakable"

St Indianapolis 25 Ind "Non-Breakable"
Super Portoil—See Wausau Motor Parts Co
Super Portoil—See Wausau Motor Parts Co
Super Sav-Oil—See Wausau Motor Parts Co
Superior Piston Ring Co 6425 Epworth Bivd
Detroit 10 Mich
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio "U-Flex"
Toledo Steel Products Div Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohio
U-Flex—See Thompson Products Inc
Universal—See Valv-Tite Piston Ring Co.
Valv-Tite Piston Ring Co., Sheperd St., To.
ledo 1, Ohio. "Valv-Tite," "Fit-Weil,"
"RX," "Universal," "Layr-Bilt," "Royal
Crown."

"RX," "Universal," "Layr-Bilt," "Royal Crown."
Wausau Motor Parts Co 1003 Harrison Blvd Wausau Wis "Wausau" "Super Saw-Oil" "Oil Savr" "Super Portoil" "XX Super Portoil" "HT-100" "Monotized OilSavr" Welco—See Ace Froducts Co White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wilkening Mig Co 2000 S 71st St Philadelphia 42 Pa "Pedrick"
XX Super Portoil—See Wausau Motor Parts Co.

RINGS, Piston (Castings for Same)

Centrifugal Foundry Co 1367 W Sherman Blvd Muskegon Mich Liberty Foundries Co 1401 23rd Ave Rockford

Sparta Foundry Co Div of Muskegon Piston Ring Co Sparta Mich "Spartaloy" (Gray

RINGS, PUMP (OIL SEALING)-So and Seals, Oil & Grease Retaining See Rings

RINGS, Potaining, Snap and Spacer
Automatic Spring Colling Co 4045 W Thorndale Ave Chicago 46 III (Snap)
Bender Equipment Co J H 5430 Tweedy Blvd
South Gate Calif
Burd Piston Ring Co Box 567 Eau Claire Wis
"Graf-Flox"
Butcher & Hart Mfg Co 4601 Cortland Ave
Altoona Pa (Steel)
Circolox—See Rumsey Corp
Cord Piston Ring Mfg Co 1351 S Olive St
Los Angeles 15 Calif
Eston Mfg Co Reliance Div 25 Charles Ave
S E Massillon Ohio "Reliance"
Graf-Flox—See Burd Piston Ring Co
Industrial Retaining Ring Co 57 Cordler St
Irvington 11 N J
National Lock Washer Co 40 Hermon St
Newark § N J (Retaining)
Non-Breakable—See Steel-Bronze Sealing
Rings Co
Perfect Circle Corp 552 S Washington St
Hagerstown Ind (Spacer)
Perfect Equipment Corp 804 Worgan St
Kokomo Ind Coli spacer)
Ramsey Corp 3693 Forest Park Blvd St Louis
S Mo "Circolox" "Spirolox" (Retaining and
spacer)
Reliance—See Eaton Mfg. Co.

spacer)
Reliance—See Eaton Mfg. Co.
Reliance—See Ramsey Corp.
Standard Supply Co 5920 Bryant St Pittsburgh 6 Pa (Coll spring spacer)
Steel-Bronze Sealing Rings Co 540 S Meridian
St Indianapolis 25 Ind "Non-Breakable"
Truarc—See Waldes Kohinoor Inc
Waldes Kohinoor Inc 47-16 Austel Place
Long Island City 1 N ¥ "Truarc" (Retaining)

RINGS, Wheel Trim

Lyon Inc 13881 W Chicago Blvd Detroit 28 Mich (Stainless steel; also white en-ameled) Namsco Inc 333 31st Ave Bellwood Ill "Ne-

tional' National—See Nameco Inc

RINGS AND SEALS, Oil and Grease Retaining

Acadia Div Western Felt Works 4115 Ogden Ave Chicago 23 III "Acadiaseal" (Synthetic rubber; "Acadia Resistofelt" synthetic rubber and felt) Alco—See Alloy Mfg Co

C-G OIL SEALS

"SPECIALIZING IN FRONT AND REAR CRANKSHAFT SEALS."

Original equipment with Automotive, Avigilen, Marine and Tractor manufacturers.

COPELAND-GIBSON PRODUCTS CORP. 12950 Capital Ave. Oak Park 37, Mich.

Circle 251 on Inquiry Card for more data

RINGS and SEALS, Oil and Grease Retaining-continued

Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built" Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y

Atlas Asbestos Co 469 Walnut St North Wales Pa (Crankshaft rear bearing oil seals)

Booth Felt Co 100 Water St Brooklyn 1 N Y (Felt)

Brummer Seal Co 1320 McKinley Ave Chi-cago Heights III (Water pump and rear main bearing oil seals)

Burgess Leather Co., A. E., B. Rd., Grafton, Mass. "Grafton. Brigham Hill C-G-See Copeland-Gibson Products Corp.

Cartriseal Corp 3515 W Touly Ave Lincolnwood Ill

Chicago Rawhide Mfg Co 1301 Elston Ave Chicago 22 Ill "Perfect" Clipper-See Johns-Manville

Copeland-Gibson Products Corp 12950 Capital Ave Oak Park \$7 Mich "C-G"

Ave Oak Park 37 Mich "C-G"
Crane Packing Co 6435 Oakton St Morton
Grove III "John Crane"
Fel-Pro-See Felt Products Mfg. Co.
Felt Products Mfg. Co 7450 N McCormick
Blvd Skokie III "Fel-Pro"
Fitzgerald Mfg. Co., 691 Main St., Torring-

ton, Conn. Garlock Packing Co 402 Main St Palmyra

Gits Bros Mfg Co 1846 S Kilbourn Ave Chi-cago 23 Ill

cago 23 Ill Grafton—See A. E. Burgess Leather Co. Graphalloy—See Graphite Metallizing C Grapholow-See Graphite Metallizing Corp.
Graphite Metallizing Corp 1083 Nepperhan
Ave Yonkers 3 N Y "Graphalloy"
International Packing Corp Lake St Bristol

International Packing Corp Lake St Bristol N H
John Crane—See Crane Packing Co
Johns-Manville 22 E 46th St New York 16
N Y "Clipper"
Kickhaefer Mfg Co 903 S 2nd St Milwaukee

4 Wis Krug Co North St Barnum Court Danbury Conn

cond Corp Riopelle at E Grand Bivd De troit 11 Mich Mechanex Corp 1144 Broadway Denver 3

Colo
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich. "Milpaco."
Milpaco—See Michigan Leather Products Co.
Muskegon Piston Ring Co Muskegon Div
Sixth & Alpha Sts Muskegon Mich
National Seal Div Federal-Mogul-Bower
Bearings Inc Broadway at National Ave
Redwood City Calif "National" "Syntech"
(Seals)

(Seals)
Non-Breakable—See Steel-Bronze Sealing
Rings Co
Ohio Rubber Co 200 Ben Hur Ave Willoughby
Ohio "Orco"
Orco—See Ohio Rubber Ce
Perfect—See Chicago Rawhide Mfg Co
Pure Carbon Co 441 Hall Ave St Marys Pa
"Purebon"

Standard Products Co 2130 110th St Cleve-

land 2 Ohio
Steel-Bronze Sealing Rings Co 540 S Meridian
St Indianapolis 25 Ind "Non-Breakable"
Trostel Packings Ltd Albert Lake Geneva

St Indianapolis 25 inc.

St Indianapolis 25 inc.

Trostel Packings Ltd Albert Lake Geneva Wis

UBC—See Union Bearing Co
Union Bearing Co 403 E Jersey St Elizabeth N J "UBC"

United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y Universal Oil-Seal Co., 24 W. Kennett Rd., Pontiac, Mich.

Victor Mig. & Gasket Co., 5756 W. Roosevelt Rd., Chicago 50, Ill. "Victoprene."

Victoprene—See Victor Mig. & Gasket Co. Western Felt Works 4021 W Ogden Ave Chicago 23 Ill "Resistofelt" (Felt)

RIVET BURRS AND WASHERS—See Washers and Burrs, Riveting Burrs

RIVET CLIPPERS-See Clippers, Bolt and

RIVET FORGES - See Forges, Rivet (Oil Burning)

RIVET HEATING FURNACES - See Furnaces, Rivet Heating

RIVET SETS-See Sets, Rivet

RIVETS, Blind

RIVETS, Blind
Bilind Bolts—See Hi-Shear Rivet Tool Co
Cherry—See Townsend Co
Dill Mfg Co 700 & 82nd St Cleveland 3
Ohlo "Lok-Skru" "Lok-Rivet"
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohlo
Hi-Shear Rivet Tool Co 2600 W 247th St
Torranco Calif "Blind Bolts"
Huck Mfg. Co., 2480 Bellevue Ave., Detroit
7, Mich. (Aluminum and steel.)
Lok-Rivet—See Dill Mfg. Co.
Lok-Skru—See Dill Mfg. Co.
Lok-Skru—See Dill Mfg. Co.
South Chester Corp Southco Div 228 Industrial Highway Lester Pa "Southco"
Southco—See South Chester Corp
Townsend Co New Brighton Pa "Cherry" &
"Versa"

"versa" nited Shoe Machinery Corp "Pop" Div West Medway Mass "Pop" ersa—See Townsend Co

RIVETS. Grooved

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio Driv-Lok Pin Co Park Ave & Chauncey St Sycamore III Fiv-Lok Pin Co Park Ave & Chauncey St. Sycamore Ill roov-Pin Corp 1125 Hendricks Causeway Ridgefield N J

RIVETS. Tubular and Split

Milford Rivet & Machine Co Post Rd Mil-ford Conn

ROAD LAMPS-See Lamps, Fog. Road and ROBE CORDS OR RAILS-See Rails, Robe or

ROD CUTTERS-See Cutters, Rod and Bar

RODS, Connecting

(Finished or Machined Rods; for con-necting rods in the rough-See Forgings)

ings)

Aluminum Co of America 801 Gulf Bidg Pittsburgh 19 Pa (Aluminum alloy)
Canton Drop Forging & Mfg. Co., 207 12th St. S. E., Canton, Ohlo.
Continental Motors Corp., Muskegon 82, Mich Dual Bearing—See Thompson Products Ine G & E—See Glilett & Eaton inc Glilett & Eaton inc 8th & Doughty Sts Lake City Minn "G & E" (Aluminum)
Niagara Motors Corps., Lamphire St., Dunkirk, N Y.
Park Drop Forge Co., 777 E. 79th St., Cleve-

Park Drop Forge Co., 777 E. 79th St., Cleve-land 3. Ohlo. nd 3. Ohio.
ks Engineering Inc 347 E Ward St Mil-

waukee 7 Wis

Pioneer Motor Bearing Co., Eddy St. &

Van Ness Ave., San Francisco. Calif.

Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio "Dual-Bearing"

Toledo Steel Products Div Thompson Products Inc 6402 Cedar Rd Cleveland 2 Ohio

Pure Carbon Co 441 Hall Ave St Marys Pa
"Purebon"
Quality Built—See Alioy Mfg Co
Resistofelt—See Western Felt Works.
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohlo
Rodic Chemical & Rubber Corp Allen Ave
New Brunswick N J
Sealol Corp Warwick Industrial Park Providence 5 R I
Shuler Axle Co 2901 8 Second St Louisville
8 Ky
Standard Products Co 2130 110th St Cleve-

RODS, VALVE LIFT-See Tappets, Valve

(See also Wire, Welding)

RODS, Welding

C Weld-See Speer Carbon Co. A C. Weid—See Speer Carbon Co. Abrasowiel—See Lincoln Electric Co. Acme Electric Weider Co 2618 Fruitland Av. Los Angeles 58 Calif "Acmeloy" "Harda-loy" "Stainaloy" "Superloy" Aerisweld—See Lincoln Electric Co. Airco—See Air Reduction Sales Co. Air Coduction Sales Co
Air Reduction Sales
Air Reduction Sales
Air Reduction
Allow Rods Co., W. Market St., York, Pa.
"Arcaloy." "Atom-Arc." "Bronze-Arc."
"Nickel-Arc." "Tool-Arc." "Wear-Arc"
All-State Welding Alloys Co
Air Sales
White Plains N Y "All-State" "Keenweld"
A "Monoweld"
Aluminum Co
Air America
Air Sales
Allow Bldg
Alloys
Air Allow Bldg
Alloys
Air Allow Bldg
Alloys
Air Alloys
Ai Aluminum Co of America 1501 Alcoa Bidg

Aluminum Co of America 1301 Alcoa Bidg Pittsburgh 19 Pa Aluminweld—See Lincoln Electric Co. American Brass Co., 414 Meadow St., Water-bury 20 Conn "Anaconda" "Tohin Bronze" American Steel & Wire Div United States Steel Corp Rockefeller Bidg Cleveland 13 Ohio "Premier"

Ampco Metal Inc 1737 S 38th St Milwau-kee 15 Wis "Ampco-Trode" "Phos-Trode"

kee 15 Wis "Ampco-Trode" 'Phos-Trode" (Bronze)
Anaconda—See American Brass Co.
Arcaloy—See Alloy Rods Co.
Atlantic Steel Co., 16th & Mecaslin St., Atlanta. Ga

lanta, Ga.
Atom-Arc—See Alloy Rods Co
Bridgeport Brass Co 30 Grand St Bridgeport
2 Conn
Bronze-Arc—See Alloy Rods Co.
Burdett Oxygen Co. of Cleveland, Inc., 3300
Lakeside Ave., Cleveland 14, Ohio. "Burdox."

ChamferTrode—See Eutectic Welding Alloys
Corp

Corp
Chromeweld—See Lincoln Electric Co.
Colweld—See Colonial Alloys Co
Colmonoy—See Wall Colmonoy Corp
Colonial Alloys Co Ridge Ave & Crawford
St Philadelphia 29 Pa "Colweld"
Crucible Steel Co of America 535 Smithfield
St Pittsburgh Pa
CutTrode—See Eutectic Welding Alloys Corp
Dockson Corp., 2829 Wabash Ave., Detroit 8,
Mich.

Mich. Elkaloy—See P R Mallory & Co Eureka—See Welding Equipment & Supply

Co.
Eutectic Weiding Alloys Corp 40-40 172nd
St Flushing N Y "CutTrode" "EutecRod"
"EutecTrodes" "SteelTectic" "Hand-OMatic" "ChamferTrode"
Faceweld—See Lincoin Electric Co.
Fleetweld—See Lincoin Electric Co.
Fleetweld—See Lincoin Electric Co.
Fluted Electrode—See P R Mallory & Co
Forney Industries 1820 La Porte Ave Ft
Collins Colo

Collins Colo Hand-O-Matic-See Eutectic Welding Al-

hand-O-Matic—See Eutectic Weiding Alloys Cop Hardaloy—See Acme Electric Welder Co. Hardweld—See Lincoln Electric Co. Harnischfeger Corp Milwaukee 46 Wis "P & H"

"P & H"
Hascrome—See Haynes Stellite Co
Hastelloy—See Haynes Stellite Co
Haynes Stellite Co 725 S Lindsay St Kokomo
Ind "Hascrome" "Hastelloy" "Haynes
Stellite" "Haynes" "Haytellite" (Hard

Stellite" "Haynes" "Haystellite" (Hard facing) Haystellite—See Haynes Stellite Co Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio, (Arc.)
Hold-Ark—See Speer Carbon Co International Nickel Co., 87 Wall St., New York 5, N. Y. "Ni-Rod." (Cast iron.)
Jetweld—See Ali-State Welding Alloys Co Keenweld—See Ali-State Welding Alloys Co Kop-R-Arc—See Krembs & Co. (So W. Ohlo St., Chicago 10, Ill. "Kop-R-Arc."
LH70—See Lincoln Electric Co

Kop-R-Arc—See Krembs & Co.
Krembs & Co., 669 W. Ohlo St., Chicago 10, 111. "Kop-R-Arc."
LH70—See Lincoln Electric Co
Lightweld—See Lincoln Electric Co
Lightweld—See Lincoln Electric Co
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohlo "Stable-Arc" "Stainweld
A" "Lightweld" "Manganweld" "Aluminweld" "Fleetweld" "Hardweld" "Fortoweid" "Toolweld" "Abrasoweld" "Chromweld" "Arisweld" "Warrweld" "Softweld" "Faceweld" "Surfaceweld" "ShieldArc" "Planeweld" "Surfaceweld" "ShieldArc" "Planeweld" "Surfaceweld" "ShieldArc" "Planeweld" "Jetweld" "LH70"
Linde Co 30 E 42nd St New York 17 N Y
"Oxweld"; "UnionMelt" (Colled)
McKay Co., 1005 Liberty Ave., Pittsburgh 22,
Pa. "McKay Rod."
Malory & Co P R 3029 E Washington St
Indianapolis 6 Ind "Elkaloy" & "Fluted
Electrode" (Resistance)
Manganweld—See Lincoln Electric Co.
Marquette Mfg. Co., 307 E. Hennepin Ave.
Minneapolis 14, Minn.
Metal & Thermit Corp Rahway N J "Murex"
Monoweld—See All-State Welding Alloys Co
Mueller Brass Co., 1925 Lapeer Ave., Fort
Huron Mich
Murex—See Metal & Thermit Corp.
NCG—See National Cylinder Gas Co.
National Cylinder Gas Co. 840 N Michigan
Ave Chicago 11 Ill "NCG" & "Sureweld"
Nickel-Arc—See Alloy Rods Co.
Ni-Rod—See International Nickel Co.
Oxweld—See Linde Co
P & H—See Harnischfreger Corp.
Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa
Phos-Trode—See Ampco Metal, inc.
Planeweld—See Lincoln Electric Co.
Premier—See American Steel & Wire Div
Revere Copper and Brass Inc., 230 Park
Ave., New York 17, N. Y. (Copper, brass
and bronze.)
Rexare—See Sight Feed Generator Co.

Ave., New York and bronze.) and bronze.) exarc—See Sight Feed Generator Co. exarc—See Sight Feed Generator Co. Rexarc-

Rexarc—See Sight Feed Generator Co. Shield-Arc—See Lincoin Electric Co. Sight Feed Generator Co., West Alexandria, Ohio. "Rexare." Smith Corp A O 27th & Hopkins Sts Milwaukee i Wis Softweld-See Lincoin Electric Co. Speer Carbon Co St Marys Pa "A C Weid" "Hold-Ark" Stable-Arc—See Lincoin Electric Co. Stalicaloy—See Acme Electric Weider Co.

Stainweld A—See Lincoln Electric Co.
SteelTectic—See Eutectic Welding Alloys
Corp
Superloy—See Acme Electric Welder Co.
Sureweld—See National Cylinder Gas Co
Surfaceweld—See Lincoln Electric Co.
Titan Metal Mfg Co Bellefonte Pa
Tobin Bronze—See American Brass Co.
Toolweld—See Lincoln Electric Co.
UnionMelt—See Lincoln Electric Co.
UnionMelt—See Lincoln Electric Co.
UnionMelt—See Linde Co
Wall Colmonoy Corp 19345 John R St Detroit
3 Mich "Colmonoy," "Wallex"
Wallex—See Wall Colmonoy Corp
Wenr-Arc—See Alloy Rods Co.
Welding Equipment & Supply Co 5225 E
Davison St Detroit 12 Mich "Eureka"
Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

ROTATORS, Valve (Poppet)

Rotocap—See Thompson Products Inc Rotocoil—See Thompson Products Inc Rotovalve—See Thompson Products Inc Thompson Products Inc 23555 Euclid Ave Cleveland 17 Ohlo "Rotocap" "Rotocoil" "Rotovalve"

ROUTERS, MULTIPLE FORM-See Machines,

RUBBER, Bonded to Metal or Plastic

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass "Apcotite" (Metal to order)

Apcotite—See Acushnet Process Co

(Metal to order)
Apositie—See Acushnet Process Co
Arco—See Automotive Rubber Co
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich "Arco"
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Castle Rubber Co East Butler Pa
Cohrlastic—See Connecticut Hard Rubber Co
Connecticut Hard Rubber Co., 407 East St.,
New Haven, Conn. "Cohrlastic" (Metal)
Cooper Tire & Rubber Co Lima & Western
Aves Findlay Ohio
Cranz Co J M 3671 Main St Buffalo 14 N Y
Duolock—See B F Goodrich Industrial Products Co

Duolock—See B F Goodrich Industrial Prod-ucts Co
Pirestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohlo
General Tire & Rubber Co Industrial Prod-ucts Div Wabash Ind
Goodrich Industrial Products Co B F 500 S
Main St Akron 18 Ohlo "Duolock"
Goodrich Co Sponge Products Div BF Sponge
Products Div Howe Ave Shelton Conn
Goshen Ruhber Co 609 E Iowa St Goshen
Ind Ind Inland Mfg. Div.-General Motors Corp., 2727

Inland Ave., Dayton I, Ohio.

Johnson Rubber Co Middlefield Ohio

Lord Mfg. Co., 1635 W. 12th St., Erle, Pa.
(Metal.)

Mechanical Rubber Products Co., Warwick, N. Y.

N. Y Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn Monarch Rubber Co Hartville Ohlo Ohlo Rubher Co., 300 Ben Hur Ave, Willoughby, Ohlo "Orco"

Willoughby, Ohlo "Orco"
Orco—See Ohlo Rubber Co.
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohlo
Rodic Chemical & Rubber Corp Allen Ave
New Brunswick N J (Metal)
Seamless Rubber Co Specialty Div 252 Hallock Ave New Haven 3 Conn
Standard Products Co 2130 W 116th St Cleveland 2 Ohlo
Stillman Rubber Co 5811 Marilyn Ave
Culver City Calif
Sun Rubber Co Industrial Products Div 9
Fairview Ave Barberton Ohlo (To order)
United States Rubber Co Rockefeller Center
1230 Ave of the Americas N Y 20 N Y

RUBBER, Hard

(Sheet, rod and tube)

(Sheet, rod and tube)
Ace—See American Hard Rubber Co.
Acme Mfg. & Gasket Co.. 738 N. 41st St.,
Philadelphia 4, Pa
American Hard Rubber Co Div Amerace
Corp Ace Rd Butler N J "Ace"
Davidson Rubber Co 50 Brighton St Boston 23
Maes
Goodrich Industrial Products Co B F 500
S Main St Akron 18 Ohio

S Main St Akron 18 Ohio Kravex Mfg Corp 684 Prospect Pl Brooklyn N Y

Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio Seamless Rubber Co Specialty Div 253 Hal-lock Ave New Haven 3 Conn

RUBBER, Molded (Natural)

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass (To order)
American Rubber Products Corp 315 Brighton St La Porte Ind (Sponge)
Atlantic India Rubber Works Inc 571 W Polk
St Chicago 7 III
Automotive Rubber Co 12584 Beech Rd De-

St Chicago 'Ill' Automotive Rubber Co 12584 Beech Rd De-troit 39 Mich Brown Rubber Co., Union St. & Concord Rd Lafayette Ind (Sponge) Buckeye Rubber Products Inc 637 N Jackson

St Lima Ohio
Canfield Co., H. O., 191 Housatonic Ave.,
Bridgeport 1, Conn.
Castle Rubber Co East Butler Pa
Chardon Rubber Co 6th & Washington Ave

Chardon Ohio
Chardon Ohio
Cincinnati Rubber Mfg. Co., Franklin Ave.

Norwood, Cincinnati 12, Ohio. Continental Rubber Works 1946 Liberty St Erie Pa

Erie Pa
Cooper Tire & Rubber Co., Lima & Western
Aves., Findlay, Ohlo.
Corduroy Rubber Co., Fuller Ave. & G. T.
Tracks, Grand Rapids 1, Mich.
Cranz Co J M 2671 Main St Buffalo 14 N Y
Davidson Rubber Co 50 Erighton St Boston
29 Mass (To order)
Dryden Rubber Div., Sheller Mfg. Corp., 1014
S. Kildare Ave., Chicago 24, Ill.
Faultless Rubber Co., 268 Fourth St., Ashland, Ohlo.
Firestone Tire & Rubber Co 1200 Firestone

land, Onto.
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio
Geauga Industries Co Old State Rd Middle-

Geauga Indu

field Ohio
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500S Main St Akron 18 Ohio
Goodrich Sponge Products B F Howe Ave
Shelton Conn "Spongex"
Goodyear Tire & Rubber Co., E. Market St.,
Akron 18 Ohio
Goshen Rubber Co 609 E Iowa St Goshen Ind
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn

ford Conn Huntingdon Rubber Mills P O Box 570 Portland 7 Ore (To order) Industrial Rubber Goods Co., St. Joseph.

Mich.
Judsen Rubber Works, Inc., 4107 W. Kinzie
St. Chicago III Studen Rubber Works, Inc., 4107 W. Kinzie St Chicago III Karpex Mfg Co 1436 E 19th St Indianapolis 7 Ind (Solid and sponge) Kravex Mfg Corp 634 Prospect Pl Brooklyn N Y

N Y
Kuchn Co N L 1053 N 4th St Milwaukee 3
Wis
Lee Rubber & Tire Corp Conshohocken Pa
Linear Inc State Rd & Levick St Philadelphia 35 Pa
Manhattan—See Raybestos-Manhattan, Inc.,
Manhattan Rubber Div
Mechanical Rubber Products Co., Warwick,
N

Minnesota Rubber Co 3630 Woodale Ave St

Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio, "Orco." Orco." See Ohio Rubber Co. Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif Premier Rubber Mfg. Co., 1 Edmund St., Dayton 1, Ohio. R/M—See Raybestos - Manhattan Inc Equip Sales Div Ravbestos-Manhattan Inc Equip Sales Div Straiford Conn "R/M"
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan"

ber Div., 61 "Manhattan"

"Manhattan"
Republic Rubber Div Lee Rubber & Tire
Carp Athert St Youngstown 1 Ohio
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 12 Ohio
Rubber Products Div Phoenix Mfg Co Joliet

St. Clair Detroit Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Wich

Seamless Rubber Co Specialty Div 253 Hal-lock Ave New Haven 3 Conn Servwell Products Co 6519 Euclid Ave Cleve-

land 3 Ohio Spongex—See B F Goodrich Sponge Prod-

ucrs Laiwart Rubber Co 222 Northfield Rd Bed-ford Ohlo tandard Products Co 2130 W 110th St Cleve-land 2 Ohlo bber Co 5811 Marilyn Ave

land 3 Ohio Stillman Rubber Co 5811 Marilyn Ave Culver City Calif Stokes Molded Products Div of Electric Stor-age Battery Co Taylor & Webster Sts Trenton 4 N J (Hard) Sun Rubber Co Industrial Products Div 9 Fairview Ave Barberton Ohio (To order) United States Rubber Co Rockfeller Center

United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y

RUBBER MOLDED (Synthetic)—See Rubber, Synthetic (Processed)

RUBBER, NEOPRENE - See Rubber, Syn-

RUBBER, Plastic

Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

RUBBER, ROD AND SHEET-See Rubber,

RUBBER SHOCK INSULATORS—See Mountings, Rubber Insulated

RUBBER, Silicone

Cohrlastic—See Connecticut Hard Rubber Co Connecticut Hard Rubber Co 407 East Ave New Haven 9 Conn "Cohrlastic" (Sheet,

New Haven 9 Conn "Cohrlastic" (Sheet, tubing and sponge)
Dow Corning Corp Midland Mich "Silastic"
G-E—See General Electric Co Silicone Products Dept Waterford N Y "G-E"
Silastic—See Dow Corning Corp Silicones Div Union Carbide Corp 30 E 42nd St N Y 17 N Y "Union Carbide"
Union Carbide—See Silicones Div Union Carbide Corp

Carbide Corp

RUBBER, Silicone (Processed)

AUBBER, Silicone (Processed)

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass (To order)

Arcosil—See Arrowhead Products Div

Arrowhead Products Div of Federal-MogulBower Bearings Inc 11031 Shoemaker Rd
Detroit Mich "Arcosil"

Cohrlastic—See Connecticut Hard Rubber Co
Connecticut Hard Rubber Co 407 East St
New Haven 9 Conn

GE—See General Electric Co
General Electric Co Chemical & Metaliurgical
Div Plastic Dept 132 S Water St Decatur

Ill "GE"

Div F Goshen Rubber Co 609 E Iowa St Goshen

Ind Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 III Minnesota Rubber Co 3630 Wcodale Ave St Louis Park Minneapolis 16 Minn Ohio Rubber Co 300 Ben Hur Ave Willough-by Ohio "Orco" Orco—See Ohio Rubber Co

RUBBER, Sponge

Airfoam—See Goodvear Tire & Rubber Co American Forest Products Co Box 911 Nor-

American Rubber Products Corp 315 Brighton St La Porte Ind (Die cut)
Automotive Rubber Co 12584 Beech Rd De-

ton St La Porte Ind (Die Cut)
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich
Backstay Welt Co., Oak & Howard Sts.,
Union City Ind ""Trimtite"
Bonded Foam Lastex Inc 4501 Perkins Ave
Cleveland 4 Ohio "Velv-O-Tex"
Brown Rubber Co., Union St. & Concord Rd.,
Lafayette, Ind.
Buckeye Rubber Products Inc 637 N Jackson
St Lima Ohio

St Lima Ohio
Coyne & Paddock, Inc., 40 21st St., Long Island City 1, L. I., N. Y. (Sheets and strips.)
Cranz Co J M 2671 Main St Buffalo 14 N Y
Davidson Rubber Co 50 Brighton St Boston 29
Mass
Dortice—See Durkee-Atwood Co

Davidson Rubber Co 59 Brighton St Boston 29 Mass
Dortite—See Durkee-Atwood Co
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn "Dortite"
Dutch Brand—See Johns-Manville Dutch
Brand Div
Faultless Rubber Co., 268 Fourth St., Ashland. Ohio.
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S
Main St Akron 18 Ohio
Goodrich Sponge Products B F Howe Ave
Shelton Conn "Sponges" (Molded forms
die-cut shapes and sheet)
Goodyear Tire & Rubber Co 1144 E Market St
Akron 16 Ohio "Airfoam"



Circle 252 on Inquiry Card for more data

RUBBER Sponge-continued

Hewitt-Robins Inc 240 Kensington Ave Buffalo 5 N Y "Restfoam" (Latex foam)
Johns-Manville Dutch Brand Div 7800 Wood-lawn Ave Chicago 19 Ill "Dutch Brand" (Sheets) Rubber Works, Inc., 4107 W. Kinsie

Chicago, Ill. ex Mfg Corp 634 Prospect Pl Brooklyn

Mechanical Rubber Products Co Warwick

N Y
Restfoam—See Hewitt-Robins Inc
Rubatex Div Great American Industries Inc
Bedford Va
Spongex—See B F Goodrich Co Sponge Products Div
Trimite—See Backstay Welt Co
Union Welt Corp 1316 S Pulaski Rd Chicago
23 Ill
United States Park

23 III United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. Velv-O-Tex-See Bonded Foam Latex Inc

RUBBER, Synthetic

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa. "Tygon."
Butaprene—See Firestone Tire & Rubber Co Chemigum—See Goodyear Tire & Rubber Co du Pont de Nemours & Co., E. I. Elastomer Chemicals Dept., Wilmington 98, Del. "Viton," "Hypaion." (Also neoprene.)
Enjay Co II E 51st St N Y 19 N Y "Enjay Buty!"

Buty!"
Fei-Fro—See Feit Products Mfg. Co.
Feit Products Mfg Co 7450 N McCormick
Blvd Skokie Ill "Fei-Pro"
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio "Butaprene"
Flintkote Co.. 30 Rockefeller Plaza, New
York 20 N Y
General Tire & Rubber Co Englewood.

Englewood Akron %Ohio "Geothon"

Fintkote Co. 30 Rockefeller Plaza, New York 20 N Y
General Tire & Rubber Co Englewood Ave & Holmes Ave Akron 9 Ohio "Genthan"
Centhan—See General Tire & Rubber Co Goodrich Chemical Co 3135 Euclid Ave Cleveland 15 Ohio "Hycar"
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio "Chemigum" "Plioflex"
Hycar—See Goodrich Chemical Co. Hypalon—See El du Pont de Nemours & Co Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J (Sheet)
Naugapol—See Naugatuck Chemical Div Naugatuck Chemical Div of U S Rubber Co 523 Elm St Naugatuck Con "Paracil" "Naugapol"
Paracil—Se Naugatuck Chemical Div Plioflex—See Goodyear Tire & Rubber Co Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Thiokol Chemical Corp 780 N Clinton Ave Trenton 7 N J
Tygon—See Acme Mfg. & Gasket Co.

Trenton 7 N J
Tygon—See Acme Mfg. & Gasket Co.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York
20, N Y. -See E I du Pont de Nemours & Co

RUBBER, Synthetic (Processed) (In molded, extruded, sheet or other forms)

Acadia Div Western Felt Works 4115 Ogden Ave Chicago 23 Ill "Acadia" "C kofelt" "Gas-

Nofelt"
Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass (To order) Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich
Canfield Co H O 191 Housatonic Ave Bridgeport i Conn
Chardon Rubber Co 8th & Washington Aves Chardon Ohio
Chicago Rawhide Mfg Co 1301 Elston Ave
Chicago 23 Ill "Sirvene"
Flintkote Co., 30 Rockefeller Plaza, New
York 20, N. X. "Syntex."
Caskofelt—See Acadia Div., Western Felt
Works.

Works. Goshen Rubber Co 609 E Iowa St Goshen

Ind
Huntington Rubber Mills PO Box 570 Portland 7 Ore (To order)
Inland Mfg Div General Motors Corp 2727
Inland Ave Dayton 1 Ohlo
Johnson Rubber Co Middlefield Ohlo
Judsen Rubber Works, Inc., 4107 W. Kinzle
St., Chicago, III

St., Chicago, III Kem-blo—See United States Rubber Co Lavelle Rubber Co 430 N Wood St Chicago 22 III

22 III
Linear Inc State Rd & Levick St Philadelphia 35 Pa
Manhattan—See Raybestos-Manhattan, Inc.,
Manhattan Rt., ber Div.
Mechanical Rubber Products Co., Warwick,
N. Y.

Monroe Auto Equipment Co 1426 E First St Monroe Mich Ohio Rubber Co., 300 Ben Hur Ave., Wil-loughby, Ohio, "Orco." Orco—See Ohio Rubber Co. Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif Pressure Seal Industries 146 Home Ave Villa Park III

Park Ill Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan" Roberts Toledo Rubber Co 4143 Monroe St

Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave
New Brunswick N J
Rubatez Div Great American Industries Inc
Bedford Va

Bedford Va
Rubber Div Phoenix Mfg Co Joliet III
Seamless Rubber Co Specialty Div 253 Hallock Ave New Haven 3 Conn
Serwwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Sirvene—See Chicago Rawhide Mfg Co
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Stillman Rubber Co 5511 Marilyn Ave Cul-

land 2 Ohlo Stillman Rubber Co 5811 Marilyn Ave Cul-ver City Calif (O rings) Syntex—See Flintkote Co. United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y. "Kem-blot"

RUNNING GEARS, Trailer-See Gears, Run-ning (Trailer)

INHIBITING PAPER-See Paper, Rust Inhibiting

RUSTPROOFING-See Galvanizing, Sherard. SAWS, Band izing and Rustproofing

SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa. "Sloux." Arote Equipment Corp., Bryan, Ohio Auto-Magie—See Douglas Scott Corp Aro Equipment Corp., Bryan, Ohio
Auto-Magic—See Douglas Scott Corp
Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Blue Point—See Snap-On Tools Corp
Buckeye Tools Corp 5005 Springboro Pike
Dayton 9 Ohio
CP—See Chicago Pneumatic Tool Co.
Chicago Pneumatic Tool Co 6 E 44th St
New York N Y "CP" "Hicycle" & "SuperClarke Sanding Machine Co.

Clarke Sanding Machine Co., 20 E. Clay Ave. SAWS, Piston Ring Slotting Cummins Portable Tools Div of John Oster Mig Co 5055 N Lydell Ave Milwaukee 17 Circular Tool Co., 765 Allens

Mfg Co 5055 N Lydell Ave Milwaukee 17 Wis Dremel Mfg Co 2420 18th St Racine Wis "Moto-Sander" Easy—See National-Detroit Inc Hicycle—See Chicago Pneumatic Tool Co Jones Motrola Corp 132 Fairfield Ave Stamford Conn Millers Falls Co., Greenfield, Mass. Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis Missional-Detroit Inc Moto-Sander—See Dremel Mfg Co National-Detroit Inc 2810 Auburn St Rockford III "Easy" "Mity Midget" Nedco Co 27 Jones Rd Waitham 54 Mass Pet—See Portable Electric Tools Inc 200 W 83rd St Chicago 20 III "Pet" Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y Pratt & Whitney Co Charter Oak Blvd West

Syracuse 4 N Y
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Remington Arms Co 939 Barnum Ave
Bridgeport 2 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland

Rotor Too 32 Ohio

Rotor Tool Co 28500 Lakeland Bivd Cleveland 32 Ohio
Scott Corp Douglas 3931 W 150th St Cleveland 11 Ohio "Auto-Magic"
Signal Mfg Co 69 Bennett St Lynn Mass Sioux—See Albertson & Co.
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Sander" (Belt disc and oscillating)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor SpeedSanders"
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain.

Conn.
Sundstrand Machine Tool Co Pneumatic Div
2531 11th St Rockford III
Supercycle—See Chicago Pneumatic Tool Co
Thor Power Tool Co 175 State St Aurora III
Thor SpeedSanders—See SpeedWay Mfg Co
United States Electrical Tool Co 3820
Llewelyn St Cincinnati 23 Ohio "U S"
Weller Electric Co 601 Stone's Crossing Rd
Easton Pa
Wen Products Ine 5806 Northwest Hwy Chicago 31 III

SANDERS, Portable Pneumatic

Aro Equipment Co., Bryan, Ohio. Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio (Belt and disc types)

CP—See Chicago Pneumatic Tool Co.
Chicago Pneumatic Tool Co 6 E 44th St New
York N 7 "CP" "Hicycle" & "Supercycle"
Cleco Div of Reed Roler Bit Co 5125 Clinton
Dr Houston 1 Tax
Dual Action—See National-Detroit Inc
Easy—See National-Detroit Inc
Hicycle—See Chicago Pneumatic Tool Co
Ingersoll-Rand Co 11 Broadway New York
4 N Y

4 N Y
Master Pneumatic Tool Co Krick Rd Bedford
Ohio "Master Power"
Mity Midget—See National-Detroit Inc
National-Detroit Inc 2810 Auburn St Rockford Ill "Dual Action" "Easy" "Mity Mid-

get"
Rotor Tool Co 23600 Lakeland Blvd Cleveland
23 Ohio
Supercycle—See Chicago Pneumatic Tool Co
Thor Power Tool Co 175 State St Aurora III
Watervilet Tool Co 1846 Broadway Albany
4 N Y

SANDERS, Traction (Automobile, Truck and Rus)

Grip-King—See Tenna-Lite Mfg Co Napco Elston — See Napco Industrial Ine Highway Safety Appliances Div Napco Industries Inc Highway Safety Appli-ances Div S34 N Seventh St Minneapolis 11 Minn "Napco Elston" (Electric for trucks and buses)

Tenna-Lite Mfg Co 1809 Milwaukee Ave Chi-cago 47 Ill "Grip-King" (Auto)

AWS, Band
Clemson Bros., 22 Cottage St., Middletown,
N. Y. "Star."
Heller Tool Co Heller Dr Newcomerstown
Ohlo "Nucut"
Moak Machine & Tool Co., 2547 Connor St.,
Port Huron, Mich.,
Nucut.—See Heller Tool Co
Simonds Saw & Steel Co 476 Main St Fitchburg Mass
Star—See Clemson Bros.

SAWS, HACK—See Blades, Saw (Hack); also Machines, Sawing (Power Hack)

SAWS, Hole-See Saws & Cutters, Hole or Rotary

Circle R-See Circular Tool Co. Circular Tool Co., 765 Allens Ave., Providence, R. I. "Circle R."

SAWS, Portable Electric

Albertson & Co 3100 Lowell Ave Sloux City Iowa "Sloux"

iowa "Sloux"

Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md

Cummins Portable Tools Div of John Oster
Mfg Co 5055 N Lydell Ave Milwaukee 17

Wis Co 5055 N Lydell Ave Milwaukee 17

Wis

Wis

Dremei Mfg. Co., 2420 18th St., Racine, Wis.

"Moto-Saw."

Forsberg Mfg Co 125 Sea View Ave Bridgeport Conn "Whirl-Saw." "Whiz-Saw"

Greene & Sons H R 3800 Lincolnway W South
Bend Ind (Hack saw attachment)

Hand-I-Hack—See Lipe-Rollway Corp.

Kett Tool Co 5055 Madison Rd Cincinnati
27 O

Key-Hak Div Producers and Distributors Inc 1321 Hanover Ave Allentown Pa (Also

Key-Hak Div Producers and Distributors Inc 1321 Hanover Ave Allentown Pa (Also saw and file attachment for drills)
Lipe-Rollway Corp., 166 Emerson Ave., Syracuse 4, N. Y. "Hand-I-Hack." (Hack.)
Mid-States Welder Mig Co 6025 S Ashland Ave Chicago 36 Ill (Saw and file attachment for drill)
Millers Falls Co Greenfield Mass
Milwaukee Electric Tool Co 535 W State St
Milwaukee Electric Tool Co 535 W State St
Milwaukee Swis (Circular reciprocating)
Moto-Saw—See Dremel Mig. Co
Pet—See Portable Electric Tools Inc
Portable Electric Tools Inc 320 W 83rd St
Chicago 26 Ill "Pet"
Porter-Cable Machine Co 700 Marcellus St
Syracuse 4 N Y
Remington Arms Co 939 Barnum Ave
Bridgeport 2 Conn
Sloux—See Albertson & Co
Skill Corp 5033 Ellston Ave Chicago 30 Ill
"Skil Saw"
SpeedWay Mig Co 1421 Barnsdale Rd La
Grange Park Ill "Thor SpeedSaws"
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 35, Pa. (Attachment, for sawing and
filing.)
Stanley Electric Tools, Div. of Stanley
Works. 480 Myrtle Ave. New Britain

Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain

Conn.
Syntron Co 495 N Lexington Ave Homer City
Pa.
Thor SpeedSaws—See SpeedWay Mfg Co
Wen Products Inc 5806 Northwest Highway
Chicago 31 III

Whirl-Saw—See Forsberg Mfg Co Whiz-Saw—See Forsberg Mfg. Co. Wyco-See Wyzenbeek & Staff Inc Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco" (Attachments for sawing or filing)

SAWS, Portable Pneumatic

Key-Hak Div Producers and Distributors Inc 1321 Hanover Ave Allentown Pa (Also saw and file attachment for drills) Thor Power Tool Co 175 State St Aurora Ill

SWING-See Machines, Sawing SCREW DRIVERS-See Drivers, Screw

SAWS and CUTTERS, Hole or Rotary (For use with Portable Electric or Pneumatic Drills)

(For cutting holes in instrument boards for mounting instruments)

boards for mounting instruments)
Albertson & Co., 3100 Lowell Ave., Sloux
City Iowa "Sloux" (Hole saws)
American Saw & Mig Co 67 Boylston St
Springfield Mass "Lenox"
Anderson Corp 1029 Southbridge St Worcester 10 Mass
Black & Decker Mig Co 629 Pennsylvania
Ave Towson 4 Md "Hole Saws"
Blue Point—See Snap-On Tools Corp.
Burt—See White Mig. Co.
Capewell Mig Co 60 Governor St Hartford
2 Conn "Safetech" (Hole saws)
Clark Co., Robert H., \$330 Santa Monica
Blvd., Beveriy Hills, Calif.
Cornwell Quality Tools Co Mogadore Ohio
(Hole saws)
Hole-Saws—See Black & Decker Mig. Co.

Hole-Saws—See Black & Decker Mfg. Co. Kett Tool Co 5055 Madison Rd Cincinnati

27 O (Rotary)
Lenox—See American Saw & Mfg Co
Martindale Electric Co 1340 Hird Ave Cleve-

Martindale Electric Co 1340 Hiru ave Control land 7 Ohlo
Millord-See Henry S Thompson & Son Co
Millord-See Henry S Thompson & Son Co
Millers Falis Co Greenfield Mass
Misener Mfg. Co. 202 Walton St., Syracuse
2 NY (Hole saws)
Rimac-See Kinck-Mcliwaine, Inc.
Rinck-Mcliwaine, Inc., 16 Hudson St., New
York 13 N. Y "Rimac."
Safetech—See Capewell Mfg Co
Sloux—See Albertson & Co
Sioux—See Albertson & Co
Snap-On Tools Corp 8046 28th Ave Kenosha
Wis "Blue Point"

Snap-On Tools Corp Suda 28th Ave Kenosna Wis "Blue Point"
Starrett Co L S 1-165 Crescent St Athol Mass Thompson & Son Co Henry G 277 Chapel St New Haven 5 Conn "Milford"
White Mfg Co 385 McCarter Highway Newark N J "Burt"
Wyc-—See Wyzenbeek & Staff, Inc.
Wyzenbeek & Staff inc 223 N California Ave Chicago 12 ili "Wyco"

SCATES, Computing, Compounding and Counting

Detecto Scales, Inc., Div. Jacobs Bros. Co., \$40 Para Ave., Brooklyn, N. Y. "Detecto-

Gram Gram Columbus 8 Ohio (Compounding and counting)
Toledo Scale Co Telegraph Rd Toledo 13 Ohio

SCALES, Special Automotive Purpose

(Including spring, armature and piston ring testing scales, connecting rod scales and connecting rod and piston classifying scales, etc.)

Exact Weight Scale Co 944 W Fifth Ave Columbus 8 Ohio "Exact Weight" "Shadow-graph" "Selectrol" Selectrol—See Exact Weight Scale Co Shadowgraph—See Exact Weight Scale Co Toledo Scale Co Telegraph Rd Toledo 13 Ohio

SCALES, Weighing (Dial Type)

Cemco Industries Inc Gallon Ohio "Tra'ler-Weigh" (Trailer)
Chatilion & Sons, John, 85-93 Cliff St., New
York 35 N Y etecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "De cto-

Gram." Dillon & Co W C 14620 Keswick St Van Nuys Calif

Calif
Fairbanks, Morse & Co., 600 S. Michigan
Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Hydroway Scales Inc 31302 Stephenson Hwy
Madison Heights Mich "Hydroscale"
Tuledo Scale Co Teiegraph Rd Toledo 13 Ohio
Trailer Weigh—See Cemco Industries Inc

SCALES. Weighing (Platform Type) Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio Buffalo Scale Co 46 Letchworth St Buffalc 13 N Y Chatillon & Sons, John, 85 Cliff St., New York 28 N Y

Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "Detecto-

Gram."

Exact Weight Scale Co 944 W Fifth Ave
Columbus 8 Ohio
Fairbanks, Morse & Co., 600 S. Michigan
Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt
Toledo Scale Co Telegraph Rd Toledo 13 Ohio

SCREWDRIVING BITS-See Bits, Screwdriving

SCREW EXTRACTORS - See Extractors.

SCREW MACHINE PRODUCTS, TO OBDEB

Aero Supply Mfg Co 611 W Main St Corry Pa Agner Simplex Co 607 Pine St Burlington 1 Wis "Simplex" Alcoa-See Aluminum Co of America Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa" Aluminum Industries Inc 3670 Werk Rd Cin-cinnati 11 Ohio Anti-Corrosive Metal Products Co Castle-ton-on-Hudson N Y Autoscrew Co 216 W 18th St New York 11 N Y

N Y
Bayley Products Inc 19155 Glendale St De-troit 23 Mich
Beacon Devices Inc 74 Oliver St North
Tonawanda N Y

Tonawanda N Y

19955 E Eight Mile Rd

Beacon Devices Inc 74 Oliver St North
Tonawanda N Y
Beck Products Corp 12255 E Eight Mile Rd
Detroit 5 Mich
Belco—See Bell Co
Bell Co David 1555 Fillmore Ave Buffalo 11
N Y "Belco"

Blake & Johnson Co 1498 Thomaston St
Waterville 48 Conn
Bowen Products Corp Auburn N Y
Brown Corp 213 Bellevue Ave Syracuse N S
Geneva III
Chicago Tool & Kit Mfg Co 230 N Jefferson
St Chicago 6 III
Circle Z R F D #2 Pomfret Center Conn
Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich
Condamatic Co 2700 E Nine Mile Rd Hazel
Park Mich
Continental Motors Corp 205 Market St
Muskeson' 82 Mich

Continental Motors Corp 205 Market St Muskegon 82 Mich Continental Motors Corp 205 Market St
Muskegon \$2 Mich
Culver-Stearns Mfg Co 181 Greenwood St
Worcester 7 Mass
Curtis Screw Co 17 Gull St Buffalo 13 N Y
Davis & Hemphill 2000 Furnave Ave Elkridge 27 Md
Defiance Screw Machine Products Div of
Serrick Corp 733 Perry St Defiance Ohio
Delo Screw Products Co 28 S Franklin St
Delaware Ohio
Dexter Products Div Dexter Industries Inc
1601 Madison Ave S E Grand Rapids 2
Mich
Dill Mfg Co 700 E \$2nd St Cleveland 3 Ohio
Dole Valve Co 6201 Oakton St Morton Grove
Ill (Brass)
Eastern Machine Screw Corp Truman &
Barciay Sts New Haven 6 Conn "H&G"
Engineered Products Co 129 Smith St Flint

Barclay Sts New Haven 6 Conn "H&G" Engineered Products Co 129 Smith St Flint Mich

Federal Screw Works 3401 Martin St De-troit 10 Mich

troit 10 Mich
Fox Products Co 4720 N 18th St Philadelphia 41 Pa
Franklin Fibre Lamitex Corp 18 St E of
Market St Wilmington Del
Freeman Co 8th & Walnut Sts Yankton
S Dak

S Dak ries Tool & Machine Works Div Mayer In-dustries 1918 E Wayne St Fort Wayne Ind anter Screw Products Inc 20 Walnut St

dustries 1918 E Wayne St Fort Wayne Ind
Ganter Screw Products Inc 20 Walnut S
Springfield Ohio
Greb Co 181 Canton St Stoughton Mass
R&G-See Eastern Machine Screw Corp
Haber Corp 864 W North Ave Chicago 22 III
Hardy Mfg Corp W Pearl St Union City Ind
Hartford Machine Screw Co P O Box 1440
Hartford 2 Conn
Harvey Aluminum 19200 S Western Ave
Torrance Calif (Aluminum)
Heruels Fastener Corp 2722 N Clybourn
Ave Chicago 14 III "Sturdi-Bolt"
Herman Machine & Tool Co Kent Rd Tallmadge Ohio
Hill Nut Co 2620 W Flournoy St Chicago 12
III.

SCREW MACHINES—See
SCREW PLATES—See Dies
SCREW SLOTTERS—See E
ting and Screw Slotting
Screw Slotting
SCREWS, Ball Bearing
Saginaw Steering Gear D
Corp 3900 Holland Rd S
CCREWS, Cap and Set
Contri-Bor—See Ferry Ca;
Dorman Products Inc 1004
Cinnati 2 Ohio

III
Holt Products Co Walnut St Holt Mich
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Imperial Brass Mfg Co 6300 W Howard St
Chicago 31 III

Inland Automatic Inc 1108 Jackson St Omaha

Kempsmith Machine Co 1819 S 71st St West Allis 14 Wis King W C 801 E Ryder St Litchfield III

Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 3 Ohio Link-Belt Co Prudential Plaza Chicago 1 Ill Lundberg Screw Products Co Box 1318 Lans-ing 4 Mich Mac-it Parts Co Shippen & Liberty Sts

Mac-it Parts Co Shippen & Liberty Sts Lancaster Pa Masco Screw Products Co 12825 Ford Rd Dearborn Mich Milwaukee Stamping Co 800 S 72nd St Mil-

waukee 14 Wis ueller Brass Co 1925 Lapeer Ave Port Huron Mich

Namco-See National Acme Co

National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco" National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio

Neapco Products Inc South & Cross Sts Pottstown Pa

New Britain Machine Co Precision Prod-ucts Div South St New Britain Conn Ottemiller Co Wm H Pattison St & M & P

R R York Pa Parker & Harpe er Mfg Co 119 Dewey St

Parker & Harper Mfg Co 119 Dewey St Worcester 10 Massi Peck Spring Co Whiting St Plainville Conn Peerless Automatic Machine Co 1970 W 77th St Cleveland 2 Ohio Perry-Fay Co Perry Court Elyria Ohio Persons-Majestic Mfg Co 54 Commercial St Worwsett S Mass

Worcester 8 Mass

Ravenna Metal Products Div of Standard Screw Co 6518 Ravenna Ave Seattle 15 Wash

Reda-Turner Mfg Co 311 Page Blvd Spring-field 4 Mass

St Louis Screw & Bolt Co 6900 N Broad-way St Louis 15 Mo

Schwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind ovill Mfg Co 99 Mill St Waterbury 20 Conn

Scully Foundry & Machine Co 66 S River St Coxsackie N Y Simplex—Se Springfield Agner Simplex Co

See Ag. Wheel

Springfield Wheel Puller Co 510 Hubert Ave Springfield Ohio Standard Locknut & Lockwasher Inc 2250 Valley Ave Indianapolis 18 Ind Steinen Mfg Co 43 Bruen St Newark 5 N J Sturdi-Bolt—See Hercules Fastener Corp-Sutton Tool Co 306 Magnolia St Sturgis Mich

Syracuse Gauge Co P O Box 51 Manlius N Y

Teale Machine Co 1425 University Ave Ro-chester 10 NY Tourek Mfg Co J J 1901 S Kilbourn Ave Chicago 23 III

United Screw & Cleveland Ohio & Bolt Corp 3590 W 58th St U Automatic Corp Franklin St Amherst

Waltham Screw Co 77 Rumford Ave Wal-tham 54 Mass

Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass
Ware Fuse Corp 4406 W Lake St Chicago

Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio Wicaco

Vicaco Machine Corp 4801 Stenton Ave Philadelphia 44 Pa

Worcester Taper Pin Co 47 Lagrange St Worcester Mass Z & W Machine Products Inc 30240 Lake-land Blvd Wickliffe Ohio Zeller Corp 1250 Fort Wayne Rd Defiance Ohio.

Ohio

SCREW MACHINES-See Machines, Screw SCREW PLATES-See Dies and Screw Plates SCREW SLOTTERS-See Blades, Metal Slit-

Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich

Contri-Bor—See Ferry Cap & Set Screw Co Dorman Products Inc 1004 Sycamore St Cin-

cinnati 2 Ohio ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio "Shinyheads" "Lo-Carbs" "Hi-Carbs" "Contri-Bor" (Socket Carbs"

SCREWS, Cap and Set-continued

Hi-Carbs—See Ferry Cap & Set Screw Co Lo-Carbs—See Ferry Cap & Set Screw Co Lok-Thred—See National Screw & Mfg Co National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Lok-Thred" Point-Lok—See Set Screw & Mfg Co Republic Steel Corp 1441 Republic Bldg Cleveland 1 Ohio (Cap) Set Screw & Mfg Co 16 Main St Bartlett Ill "Nu-Cup" "Point-Lok" "Setko" (Hopper-for headless besigns and fluted softed

'oint-Lok" "Setko" (Hopper-hexagon and fluted slotted

"Nu-Cup" Point-Lok "Setko (Hopper-fed headless hexagon and fluted slotted and slabbed set) Shinyheads—See Ferry Cap & Set Screw Co Standard Pressed Steel Co P O Box 335 Jenkintown Pa

SCREWS, Drive

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel) American Screw Co 1670 W Main St Willimantic Conn

Continental Screw Co 100 Mt Pleasant St New Bedford Mass "Holtite"

Screw Corp., 1800 Broadway, Rockford, Ill.

ROCKIOTA, INC.
Ferry Screw Products Inc E W 5240 Smith
Rd Cleveland 30 Ohio (Stainless steel)
Hercules Fastener Corp 2722 N Clybourn Ave
Chicago 14 Ill "Sturdi-Bott"
Holtite—See Continental Screw Co

National Screw & Mig. Co., 2440 E. 75th St., Cleveland 4, Unio.

Cleveland 4, Unio.

Parker-Kaion Div General American Transportation Corp Clifton N J

Pheoli Alig. Co., stud W. Roosevelt Rd., Chicago et ali.

Reed & Frince Mfg. Co., 1 Duncan Ave., Worcester I, Mass.

Rockford Berew Products Co., 2501 Ninth St., Rockford, Ill.

Southern Screw Co 125 Barkley Rd Statesville N C

Sturdi-Boit—See Hercules Fastener Corp

trott 13, Mich.

SCREWS, Sealing

Russell Burdsall & Ward Bolt & Nut Co

Port Chester N Y "Spin-Seal"

SCREWS, Self-Locking

Screws, Self-Locking

SCREWS, Self-Locking

SCREWS, Machine

Alimetal Screw Froducts Co 821 Stewart Ave Garden City N Y (Stainless steel) Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa American-Monarch Corp 5900 Park Ave Cleveland 5 Ohlo American Screw Co 1670 W Main St Willi-

mantie Conn

nance Conn Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y "Nylo-Fast" (Nylon; stainless steel)

on-Hudson N N Nylo-Past (Nylos, stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Autoscrew Co 216 W 18th St New York N Y (Monel metal and stainless steel)
Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky
Bergander Mfg Co 2129 Warner Ave Chicago 18 Ill "Gulmite"
Blake & Johnson Co., 1498 Thomaston Ave., Waterville, Conn
Buffalo Bolt Co Div of Buffalo Eclipse Corp 101 East Ave North Tonawanda N Y "Circle B"
Camcar Screw & Mfg Co 600 18th Ave Rockford Ill

"Circle B"
Camcar Screw & Mfg Co 600 18th Ave
Rockford III
Central Screw Co., 3501 8. Shields Ave.,
Chleago III.
Chase Brass & Copper Co., 236 Grand St.,
Waterbury 26, Conn
Circle B-See Buffalo Bolt Co
Continental Screw Co 100 Mt Pleasant St
New Bedford Mass "Holtite"
Dorman Products Inc 1004 Sycamore St Cin-

cinnati 2 Ohio

Eagle Lock & Screw Co S Main St Terry-ville Conn Screw Corp., 1800 Broadway,

leo Tool & Rockford, III

Elco Tool & Screw Corp., 1800 Broadway.
Rockford. III
Ferry Bros 3474 Theurer Ct Cleveland 9 Ohlo
Ferry Screw Products Inc E W 5240 Smith
Rd Cleveland 30 Ohlo (Stainless steel)
Gries Reproducer Corp Beechwood Ave &
Second St New Rochelle N Y (Nylon)
Guimite—See Bergander Mig Co
Hercules Fastener Corp 2722 N Clybourn Ave
Chicago 14 III "Sturdi-Bolt"
Holtite—See Continental Screw Co.
Hubbell, Inc., Harvey, State St. & Bostwick
Ave., Bridgeport, Conn.
International Screw Co., 9444 Roselawn Ave.,
Detroit. Mich
Lamson & Sessions Co 5000 Tiedeman Rd
Cleveland 9 Ohlo
Mac-It Parts Co., Shippen & Liberty St.,
Lancaster, Pa.
Millord Rivet & Machine Co., Post Rd., Milford, Conn.

National Screw & Mig Co 2440 E 75th St Cleveland 4 Ohio "Spin-Lock" "Tuff-

Nylo-Fast-See Anti-Corrosive Metal Prod-

Cleveland 4 Onto Spin-Lock

Tite"
Nyio-Fast—See Anti-Corrosive Metal Products Co
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoli Mig. Co., 5700 W. Roosevelt Rd., Chicago 60, Ill.
Progressive Mfg. Co., 52 Norwood St., Torrington, Corn.
Promco—See Torrington Co
Reed & Prince Mfg Co 1 Duncan Ave
Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth
St Rockford Ill
Russell Burdsall & Ward Bolt & Nut Co
Port Chester N Y
Scovill Mfg Co Waterville Industrial Fastener Sales 1655 Thomaston Ave Waterville
14 Conn (Slotted Phillips type clutch type and "Sems" with pre-assembled washers)
Southern Screw Co 125 Barkley Rd Statesville N C (Slotted and Phillips)
Spin-Lock—See National Screw & Míg Co
Second Forth Control of Second Control Control

Wolverine Bolt troit 13, Mich. Bolt Co., 9685 Grinnell Ave., De-

tine

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel selftapping) Screw Co 1670 W Main St Willi-

mantic Conn
Anti-Corrosive Metal Products Co Castletonon-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd
Cleveland 10 Ohio
Blake & Johnson Co 1498 Thomaston St
Waterville 48 Conn

waterville 48 Conn Camcar Screw & Mfg Co 600 18th Ave Rock-ford III (Thread-cutting) Central Screw Co., 2501 S. Shields Ave., Chi-cago S. III. Chama-frems, Inc., 8191 Maple Ave., St 7 onle Wo

Toute Mo Continental Screw Co 100 Mt Pleasant St New Redford Mass "Holtite" Eagle Lock & Screw Co 8 Main St Terry-ville Conn (Self-tapping) Floo Tool & Screw Corp 1800 Broadway

Rockford III

Elica Tool & Screw Corp 1800 Broadway Rockford III

Everlock—See Thompson-Bremer & Co
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 III "Sturdi-Bolt"
Holitie—See Continental Screw Co
Lamson & Sessions Co 5000 Tiedeman Rd
Cleveland 9 Ohio (Tapping)
Lightnin—See R J Loock & Co
Loock & Co R J 343 N Gay St Baltimore Md
"Lightnin" (Self-tapping)
National Screw & Mfe Co 2440 E 75th St
Cleveland 4 Ohio "Spin-Lock" "Tuff-Tite"
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoli Mfg Co 5760 W Roosevelt Rd Chicago
"a III (Thread cutting)
Promco—See Torrington Co
R B & W—See Russell Burdsall & Ward
Rolt & Nut Co
Rockford Screw Products Co 2501 Ninth St
Rockford III
Russell, Burdsall & Ward Bolt & Nut Co
Port Chester N Y "R B & W"
Scovill Mfg. Co., 99 Mill St., Waterbury 20,
Conn.
Scovill Mfg. Co Waterville Industrial Fas-

Conn.
Scovill Mfg Co Waterville Industrial Fas-tener Sales 1655 Thomaston Ave Water-ville 14 Conn (Phillips clutch and slotted types; also "Sems" with assembled wash-

types; also Seins with the sers)
sers)
Set Screw & Mfg Co 16 Main St Bartlett
Ill (Self-tapping)
Shakeproof Div of Illinois Tool Works St
Charles Rd Elgin Ill
Southern Screw Co 125 Barkley Rd Statesville N C (Slotted and Phillips tapping)
Southington Hardware Div of Pittsburgh
Screw & Bolt Corp 168 Center St Southington Conn (Self-tapping)

Spin-Lock—See National Screw & Mfg Co Thompson-Bremer & Co 228 N La Salle St Chicago I Ili "Everloch" (Thread-cutting) Torrington Co 59 Field St Torrington Conn

Townsend Co New Brighton Pa (Self-tap-

ping)
Tuff-Tite—See National Screw & Mig Co
United Screw & Bolt Corp 3590 W 58th St
Cleveland Ohio

SCREWS, Sheet Metal

Alimetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel) Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum) American Screw Co 1670 W Main St Willi-mantic Conn Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel) Alias Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio Bergander Mfg Co 2129 Warner Ava Chi-

Cleveland 10 Ohio Bergander Mfg Co 2129 Warner Ave Chi-cago 18 Ill "Gulmite" Camear Screw & Mfg Corp 600 18th Ave Rockford Ill Central Screw Co., 3501 S. Shields Ave., Chicago 9. Ill.

cago 9, Ill.
Continental Screw Co 100 Mt Pleasant St
New Bedford Mass "Nylok"
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Self-tapping)
Ferry Bros 3474 Theurer Ct Cleveland 9 Ohio
Ferry Screw Products Inc 5240 Smith Rd
Cleveland 30 Ohio
Gulmite—See Bergander Mfg Co
International Screw Co 9444 Roselawn Ave
Datroit 4 Mich

Detroit 4 Mich

International Screw Co 9444 Roselawn Ave
Detroit 4 Mich
Lamson & Sessions Co 5000 Tiedeman Rd
Cleveland 9 Ohio
National Screw & Mfg Co 2440 E 75th St
Cleveland 4 Ohio
Nylok—See Continental Screw Co
Paine Co Addison III
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago
50 III
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth 8t
Rockford Screw Products Co 2501 Ninth 8t
Rockford III (Slotted Phillips type)
Scovili Mfg Co Waterville Industrial Fastener Sales 1655 Thomaston Ave Waterville 14 Conn (Slotted, Phillips and clutch
types) types)

types)
Shakeproof Div of Illinois Tool Works St
Charles Rd Eigh Ill
Southern Screw Co 125 Barkley Rd Statesville N C (Slotted and Phillips types)
Triplex Screw Co Div Murray Corp of
America 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens
Ave Cleveland 7 Ohio

SCREWS, THREAD-CUTTING—See Screws, Self-Tapping and Thread-Cutting

SCREWS, Thumb

Allmetal Screw Products Co 821 Stewart Ave Garden City N V (Stainless steel) Billings & Spencer Co 1 Laurel St Hart-ford 1 Conn Blake & Johnson Co., 1498 Thomaston Ave.,

Make & Johnson Waterville, Conn. actral Screw Co., 3501 S. Shields Ave.,

Waterville. Con.
Central Scraw Co., 3501 S. Shields Ave.,
Chicago S. III.
GRC—See Gries Reproducer Corp
Gries Reproducer Corp Beechwood Ave &
Second St New Rochelle N Y "GRC"
Kaystone Porgries ". Northumberland. Pa
National Screw & Mfg Co. 2440 E 75th St
Cleveland 4 Ohio "Tuff-Tite"
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoli Mfg. Co., 5700 W. Roosevelt Rd., Chicago 50, III.
Sterling Bolt Co 363 W Erie St Chicago 10 III
United Scraw & Bolt Corp., 3590 W. 58th St.,
Cleveland, Ohio.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

SCREWS. Valve Tappet Adjusting

Accurate Products Inc 135 N Spring St Indianapolis Ind Chicago Screw Co 2701 Washington Blvd Bellwood III Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohlo.

SCREWS, Wood

Continental Screw Co 100 Mt Pleasant St New Bedford Mass National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Tuff-Tite" Southern Screw Co 125 Barkley Rd States-ville N C

SCREWS and BOLTS, Recessed Head

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel) American Screw Co 1670 W Main St Willi-mantic Conn (Phillips type) Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohlo

Bristol Co Waterbury 20 Conn Camcar Screw & Mfg Co 600 18 Ave Rockford Ill

Ill
Central Screw Co., 3501 S. Shields Ave., Chicago 9, Ill. (Phillips type.)
Chandler Products Corp 1491 Chardon Rd
Cleveland 17 Ohio "Place" (Bolts; li-

Cleveland 17 Ohio "Place" (Bolts; censees) Continental Screw Co 100 Mt Pleasant New Bedford Mass "Holtite" (Phil

type)

type)
cloo Tool & Screw Corp 1800 Broadway
Rockford III (Phillips type)
mpire—See Russell Burdsall & Ward Bolt
& Nut Co
arper Co H M 2624 Fletcher St Chicago Empire

Marper Co H M 2624 Fletcher St Chicago 18 III (Phillips type) Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 III "Sturdi-Bolt" (Phillips

Ave Chicago 14 III "Sturdi-Boit" (Phillips type)
Holtite—See Continental Screw Co
International Screw Co 9444 Roselawn Ave
Detroit Mich (Phillips type)
Lamson & Sessions Co 46000 Tiedeman Rd
Cleveland 9 Ohio (Phillips type)
Milford Rivet & Machine Co Post Rd Milford
Conn (Phillips type screws)
National Screw & Mfg Co 2440 E 75th St
Cleveland 4 Ohio "Spin-Lock" (Phillips
type)

Parker-Kalon Div General American Trans-portation Corp Clifton N J (Phillips type

portation Corp Chitton N & Chamber Species Secrews)
Pheoli Mfg Co 5700 W Roosevelt Rd Chicago
50 Ill (Phillips type)
Place—See Chandler Products Corp
Promco-See Torrington Co
Reed & Prince Mfg Co 1 Duncan Ave
Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth St
Rockford Screw Products Co 2501 Ninth St
Rockford Screw Products Co 2501 Ninth St
Rockford Ill (Phillips and clutch types)
Russell Burdsall & Ward Bolt & Nut Co
Port Chester N Y "Empire" (Phillips and clutch types)
Rational Seal

Port Chester N Y "Empire" (Phillips and Colutch types)
Scovill Mfg Co 99 Mill St Waterbury 20 Conn (Phillips type)
Scovill Mfg Co Waterville Screw Products Div Waterville 48 Conn (Phillips type)
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin III
Southern Screw Co 125 Barkley Rd Statesville N C (Slotted and Phillips types)
Spin-Lock—See National Screw & Mfg Co Sterling Bolt Co 363 Erie St Chicago 10 III
(Phillips type)
Sturdi-Bolt—See Hercules Fastener Corp Torrington Co 59 Field St Torrington Conn "Promco"

"Promco"
Triplex Screw Co Div Murray Corp of
America 5319 Grant Ave Cleveland Ohio
(Phillips type)
Vol-Shan Mfg Co 8463 Higuera St Culver
City Calif (Phillips type)

SCREWS and BOLTS, Self-Locking

Bristol Co Waterbury 20 Conn Bristol Co Waterbury 20 Conn Central Screw Co., 3501 S. Shields Ave., Chicago 5, Ill. Chandler Products Corp., 1491 Chardon Rd., Cleveland 17, Ohio. "Place" (Bolts, li-

Cleveland 17, Ohio. "Place" (Bolts, Ilcensees)
Cleveland Cap Screw Co 2917 E 79th St
Cleveland A Ohio Continental Screw Co 190 Mt Pleasant St
A "Spin-Lock" Flex-Head—See National Screw & Mfg Co
Holtite—See Continental Screw & Mfg Co
Holtite—See Continental Screw & Mfg Co
Lamson & Sessions Co 5090 Tiedeman Rd
Cleveland 9 Ohio "Dardelet" (Licenses);
"Lok-Thred" (Sub-licensee)
Lok-Thred—See National Screw & Mfg Co
Milford Kivet & Machine Co., Post Rd., Milford. Conn. (Screwa.)
National Screw & Mfg Co 2440 E 75th St
Cleveland 4 Ohio "Flex-Head" "LokThred" (Licensees) "Place" bolts (Licensees)

Nylok Corp 611 Industrial Ave Paramus N J

Nylok Corp 611 Industrial Ave Paramus N J (Licensees)
Place—See Chandler Products Corp; also National Screw & Mfg Co National Screw & Mfg Co National Screw & Mfg Co Port Chester N Y "Spin-Lock" (Screws)
Set Screw & Mfg Co 18 Main St Bartlett III "Zip-Grip" (Set screws)
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin III
Spin-Lock—See Russell, Burdsall & Ward Bolt & Nut Co also Continental Screw Co Thredlock—See Continental Screw Co Triplex Screw Co Div Murray Corp of America 5319 Grant Ave Cleveland Ohio (Preassembled)
Zip-Grip—See Set Screw & Mfg Co

SCRIBERS, Machinists'

Brown & Sharpe Mfg Co 235 Promenade St Providence R I Goodell-Pratt—See Millers Falls Co

Providence R I Goodell-Pratt—See Millers Falls Co Lufkin Rule Co Hess Ave Saginaw Mich Mayhew Steel Products Inc Shelburne Falls

Millers Falls Co Greenfield Mass "Goodell-Starrett Co L S 1 Crescent St Athol Mass

SEALANTS, Bolt and Nut

American Sealants Co 103 Woodbine St Hartford 6 Comp

SEALS, OIL AND GREASE—See Rings & Seals, Oil & Grease Retaining

SEAMING MACHINES METAL - See Machine, Seaming (Metal)

SEARCHLIGHTS - See Lamps, Head; also Lamps, Fog, Road and Spot

SEAT ADJUSTERS - See Adjusters, Driver's

EAT COVER MATERIAL — See Fabric, Coated Cloth; Fabric, Fibre (Seat Cover): Fabric, Plastic; Fabric, Seat Cover

SEAT CUSHIONS-See Cushions, Seat

SEAT FRAMES-See Frames, Seat

SEAT MOUNTINGS, RUBBER INSULATED
—See Mountings, Rubber Insulated

SEAT PADS-See Pads, Seat

SEAT SWITCHES-See Switches, Seat and Window (Electric)

American Karpen-See American Seating Co. American Seating Co Ninth St & Broadway Grand Rapids Mich "Amseco Bodiform "American Karpen" Amesbury Seat Mfg. Co., 200 S. River St.,

Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich. Amseco Bodiform—See American Seating Co General Seating Co 220 Main St Topton Pa National Seating Co 167 Park Ave E Mansfield Ohio (Sole distributors, George B Cross Co 624 S Michigan Ave Chicago 5 Ill) Transportation Seating Div of American Wicker Works 1312 Harmon Pl Minneapolis 3 Minn Troy Sunshade Co., Troy, Ohio. United States Rubber Co., Rockefeller Center, 1220 Ave. of the Americas, New York 20, N. Y.

SEATS, Tractor

Perma Seating Co 8770 Kinsman Rd Cleve-land 4 Ohio (Upholstered)

SEATS, Truck

American Seating Co Ninth St & Broadway Grand Rapids Mich "Tilt-A-Way" Bostrom Mfg Co 133 W Oregon St Milwau-kee 4 Wis "Level Ride" (Spring suspen-sion)

Comfort Cushion Co., 5062 Loraine Ave.,

Comfort Cushion Co., 5062 Loraine Ave.,
Detroit 8 Mich
General Seating Co 220 Main St Topton Pa
Ionia Mfg Co Div of Mitchell-Bentley Corp
121 8 Dexter 8t Ionia Mich
Level Ride—See Bostrom Mfg Co
Millsco Mfg Co 2758 N 33rd St Milwaukee
Wis (Foam rubber)
Monroe Auto Equipment Co., 1426 E. First
St., Monroe, Mich. (Spring suspension.)
National Seating Co 167 Park Ave E Mansfield Ohio (Sole distributors, George B
Cross Co 624 8 Michigan Ave Chicago 5 III)

Upholstered TRUCK-TRACTOR SEATS

Foam Rubber—Spring Construction

Large or small runs on all types of standard or special seats. Send us your prints for prompt quotation.

PERMA SEATING COMPANY

8770 Kinsman Road Cleveland 4, Ohio .

Circle 253 on Inquiry Card for more data

Perma Seating Co 8770 Kinsman Rd Cleve-land 4 Ohio (Upholstered)

Tilt-A-Way-See American Seating Co.

Transportation Seating Div of American Wicker Works 1312 Harmon Pl Minne-apolis 3 Minn

Troy Sunshade Co Troy Ohio

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York



SLOTTED SLABBED SET SCREWS SET SCREWS SET SCREWS Two Models are available. The Vertical Feed Model adapts to drill presses, vertical tapping machines, etc. The Universal Model for horizontal feeding can be used as a separate unit, or with rotary indexing work tables.

Free Demonstration in Your Plant or Ours ... Arrange to visit the Setko plant, or ask for the loan of the new 12 minute 16-mm color movie that gives a "demonstration" in your plant or office. Ask for a copy of Catalog 21, which describes the new Setko System, plus the complete line of Setko standard and special types of set screws.



Circle 254 on Inquiry Card for more data

SEATS, Valve

Div
Dorman Products Inc 1004 Sycamore St
Cincinnati 2 Ohio
Durachrome—See Thompson Products Inc
Duralite—See Thompson Products Inc
Eaton Mfg Co Saginaw Div 1000 Rust St
Saginaw Mich
Haynes Stellite Co 725 S Lindsay St Ko-

Saginaw Mich
Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Hub City Iron Co, 218 First Ave., S. W.,
Aberdeen, S. D.
Jambor Tool & Stamping Co., 2057 N. 30th
St., Milwaukee 10. Wis. "Bull Dog."
Lee Co, K. O., Congress at First Ave., S. E.
Aberdeen, S. D.
P-B—See Peterson Machine Tool Inc
Par-Plus—See Parts Processing Corp
Parts Processing Corp 1499 E Michigan Ave
Battle Creek Mich "Par-Plus"
Perfect Parts Inc 42 W 23rd St New York 10
N Y
Permite—See Aluminum Industries Inc.

N T
Permite—See Aluminum Industries Inc
Peterson Machine Tool Inc 6200 Merriam Dr
Merriam Kans "P-B" (Screw-in type)
RMC—See Rich Mfg Corp
Rich Mfg Corp 56 N Division St Battle
Creek Mich "RMC"
Sioux—See Albertson & Co
Superior—See White Machine Works.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio "Duralite" "Durachrome"

chrome"
Toledo Steel Froducts Div Thompson Products Inc 6402 Cedar Rd Cleveland 3 Ohio "Chrom-O-Loy"; "Toledo Steel" (Cast

Iron)
Versnick Mfg Co Madisonville Ky
Wausau Motor Parts Co., 1003 Harrison
Blvd., Wausau, Wis. "Chieftain."
Wells Inc Martin 5886 Compton Ave Los Angeles 1 Calif "Well-Tite"
White Machine Works, 1401 Believue Ave.,
Eau Claire. Wis. "Sunerior."

SEMAPHORES-See Signals, Direction Indicating (Auto)

SEPARATORS, Air-Fluid (For Air Suspension Systems)

AC Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich

SEPARATORS, Chip

(For separating oil or chips from cut-off finished parts)

American Laundry Machinery (*o Norwood Station Cincinnati 12 Ohio Barnes Drill Co., \$26 Chestnut St., Rockford, Ill. "Barnesdril."
CFC-See Indiana Commercial Filters Corp Indiana Commercial Filters Corp 415 Indiana polis Ave Lebanon Ind "CFC" (Magnetic)

netic)
McKenzie Engineering Co S Main St Newtown Conn (For automatic screw machine
products)
Ransohoff Inc N N Fifth St & Ford Blvd
Hamilton Ohio

SEPARATORS, Storage Battery

Ase—See American Hard Rubber Co.
Ace-Duo-Sil—See American Hard Rubber Co.
American Hard Rubber Co Div American
Corp Ace Rd Butler N J "Ace-Duo-Sil"
Arrow Mill Co 2440 Arrow Mill Ave Los Angeles 23 Calif
Darak—See Dewey & Almy Chemical Div
Dewey & Almy Chemical Div of W R Grace
& Co 62 Whittemore Ave Cambridge 40
Mass "Darak"
Evans Products Co 13101 Eckles Rd Plym-

Mass "Darak"

Evans Products Co 15101 Eckles Rd Plymouth Mich "Evanite" (Wood-fibre)

Gould-National Batteries Inc Industrial Div

467 Calhoun St Trenton 7 N J

Peerless—See United States Rubber Co

United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York

20 N Y "Peerless" (Rubber and plastic)

SETS, DIE-See Die Sets (Forging, Stamping, etc.)

SETS, Rivet

Peck, Stow & Wilcox Co 217 Center St Southington Conn "Pexto" Pexto—See Peck, Stow & Wilcox Co

SETS, WIRING-See Cables (Sets)

Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa. "Sloux."
Aluminum industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Bull Log—See Jambor Tool & Stamping Co. Burd Piston Ring Co Box 567 Eau Claire Wis Chieftain—See Wausau Moor Parts Co., Chrom-O-Loy—See Toledo Steel Products
Div. Atmars Tool Co., 600 16th St., Oakland Screw
Apex Machine & Tool Co., 1925 Patterson
Blvd., Dayton, Ohio,
Aro Equipment Co., Bryan, Ohio, (Portable
pneumatic, nut.)
Atmars Tool Co., 609 16th St., Oakland 12,
Calif. "Pushon."
Buckeye Tools Corp 5006 Springboro Pike
Dayton 9 Ohio (Portable electric and pneu-

Dayton 9 Ohio (Portable electric and pneumatic runners)
Cal-Van Machine Products Inc 809 S Water
St Jackson Mich (Screw)
Chicago Pneumatic Tool Co 6 E 44th St
New York N Y "Universal" (Portable electric "Magnamatic" portable pneumatic)
Cleco Div of Reed Roller Bit Co 5125 Clinton
Dratte Houston 1 Tex (Portable pneumatic) matic)

Drive Houston 1 Tex (Portable pneumatic)
Clinchor—See Tomkins-Johnson Co
Cornwell Quality Tools Co Mogadore Ohio
Dixon Automatic Tool Inc 2300 23rd Ave
Rockford Ill (Portable pneumatic nut)
Errington Mechanical Laboratory Inc 24
Norwood Ave Stapleton S I 4 N Y
Garvin Bros Inc 1608 Cedar Point Drive Niles
Mich "Power-Torque"
Herbrand Diy Bingham-Herbrand Corp Lake
& Stone Sits Fremont Ohio (Screw)
Ingersoil-Rand Co 11 Broadway New York
4 N Y (Pneumatic and electric)
Keller Tool Diy Gardner Denver Co 1333 Fulton St Grand Haven Mich (Portable pneumatic; also multiple)

matic; also multiple)
Master Pneumatic Tool Co Krick Rd Bedford
Ohio "Master Power" (Portable pneumatic

nut) nut) Falls Co Greenfield Mass Millers Falls Co Greenfield Mass Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis (Portable electric all Tool Co 928 Broadway N Y 10 N Y

Oxwall Tool Co 928 Broadway N Y 10 N Y (Nut)
Power-Torque—See Garvin Bros Inc
Proto Tools 2209 Santa Fe Ave Los Angeles
54 Calif (Stud)
Pushon—See Atmars Tool Co.
Rimac—See Rinck-Mellwaine Inc
Rinck-Mellwaine Inc 16 Hudson St N Y 13
N Y "Rince" Inc 16 Hudson St N Y 13
Retor Till Co 23800 Lakelend Ave Claveland

Rinck-McIlwaine Inc 16 Hudson St N I 13 N Y "Rimae"
Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohlo (Portable pneumatic nut)
Rovtar Tool-Die Mfg Co 2230 S Wood St Chicago 3 Ill (Nut)
Skil Corp 5033 Eliston Ave Chicago 30 Ill "Skil Driver" (Portable electric nut)
Thor Power Tool Corp 175 State St Aurora Ill (Portable electric and portable pneumatic nut)

Ill (Portable electric and portable pneumatic nut)

Titan Tool Co E Main St Fairview Erle
County Pa (Stud; also combination stud
driver and remover)

Tomkins-Johnson Co 617 N Mechanic St
Jackson Mich "Clinchor"

United States Electrical Tool Co 3620

Llewelyn St Cincinnati 23 Ohio

Universal—See Chicago Pneumatic Tool Co.

SEWING MACHINES—See Machines, Sewing SHACKLE BOLTS-See Bolts, Spring Shackle

SHACKLES, Spring

HACKLES, Spring

Alco—See Alloy Mfg Co

Alloy Mfg Co 2207 S Shields Ave Chicago 16

Ill "Alco" "Alloy" "Quality Bullt"

Aluminum Industries Inc 2670 Werk Rd Cincinnati 11 Ohio "Permite" (Rubber)

Bull Dog—See Jambor Tool & Stamping Co

Cleveland—See H K Porter Co

Elgin Machine Works 412 N State St Elgin

Eigin Machine Works 412 N State St Eigin III
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 26th St Indianapolis 7 Ind
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J
3mbor Tool & Stamping 0 2057 N 20th
St Milwaukee Wis "Bull Dog" (Rubber,
for Ford, Chevrolet and Plymouth cars)
Moog Industries Inc 6650 Easton Ave St
Louis 14 Mo
National—See Wheel Parts & Mfg Co
Permite—See Aluminum Industries Inc
Porter Co H K Forge & Fittings Div Cleveland 4 Ohlo "Cleveland"
Quality Built—See Alloy Mfg Co
Republic Engrg & Mfg Co 6656 Wells Ave
St Louis 14 Mo
Sturdy Products Corp 130 New York Ave
Jersey City 7 NJ
Toledo Steel Products Div Thompson Products Div 6402 Cedar Rd Cleveland 3 Ohlo
Trayer Products Inc E Clinton St Elmira
N Y (Screw type rubber)
Wheel Parts & Mfg. Co., 352 Fourth Ave.,
New York 16, N. Y. "National."

SHAFTING, Flexible

(For driving speedometers, odometers or taximeters; also for drilling, grinding, polishing machines, etc.)

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (As-

semblies)

Albertson & Co., 3100 Lowell Ave., Sloux City, Iowa, "Sloux."

City, Iowa. "Sioux."

Barbour-Stockwell Co 205 Broadway Cambridge 35 Mass "Reliance"

Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. (Speedometer)

Circle Ess—See F W Stewart Mfg Corp Electric Auto-Lite Co Toledo 1 Ohio

Elliott Mfg Co B W 232 State St Binghamton N Y

Gilpak Automotive Boddets

Elliott Mfg Co B W 232 State St Binghamton N Y
Gilpak Automotive Products Div Packer
Auto Parts Inc Roselle N J (Speedometer)
Highland Machine Co 3215 Superior Ave
Cleveland 14 Ohio Div Standard Motor Products Inc 37-18 Northern Blvd Long Island
Cir N Y (Speedometer)
Jarvis Corp Middletown Conn
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair
Lawn. N J.
National—See Wheel Parts & Mfg Co
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Speedometer; sole
distributors Vulcan Motor Products Ine
1060 Broad St Newark 2 N J)
Parco—See Parts Mfg Co
Parts Mfg Co 211 W 66 St N Y 22 N Y
"Parco"

"Parco"
Perfection Automotive Products Corp \$25 W
Elizabeth St Detroit 1 Mich
Preferred Electric & Wire Co Bush Terminal Bidg No. 8 Brooklyn 32 N Y
Reliance—See Barbour-Stockwell Co
Rotoflex—See Teleflex Inc

S. S.—See Speedometer Service Co. Sioux—See Albertson & Co. Speedoffex—See United Parts Mfg Co

Speedoflex—See United Parts Mfg Co
Speedometer Service Co., 151 Forest St.,
Montclair, N. J. "S. S."
Stewart Mfg Corp F W 4311 N Ravenswood
Ave Chicago III "Circle Ess"
Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicago 14 III
Stow Mfg Co 443 State St Binghamton N Y
(Heavy duty)
Teleflex Inc Box 218 North Wales Pa "Rotoflex" "Teleflex" (For trucks and buses)
Inited Parts Mfg Co 1256 W Van Buren St
Inited Parts Mfg Co 1256 W Van Buren St

flex" "Teleflex" (For trucks and buses)
United Parts Mfg Co 1250 W Van Buren St
Chicago 7 Ill "Speedoflex" Chicago 7 Ill "Speedonex United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.

St., New York 19, N. Y.
Valley Forge Products Inc 370 19th St Brook-lyn 15 N Y

lyn 15 N Y
Vulcan—See Paragon Products Corp.
Walker-Turner Div Rockwell Mfg Co 400
N Lexington Ave Pittsburgh 8 Pa
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" (Speedometer)
Wyzenbeck & Staff Inc 223 N California Ave
Chicago 12 Ill "Wyco"

See Wyzenbeek & Staff, Inc. SHAFTS, CAM-See Camshafts

SHAFTS, CLUTCH—See Shafts, Transmission and Clutch SHAFTS, CRANK-See Crankshafts

SHAFTS, Propeller

(Shafts only; for universal joints-see Joints, Universal)

Cleveland Steel Products Corp 16025 Brook-park Rd Cleveland 35 Ohio park Rd Cieveland 35 Onio Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer" Detroit Universal Div Chrysler Corp 6455 Kingaley Ave Dearborn Mich

Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y. Lempco Products Inc 5490 Dunham Rd Bed-ford Ohlo

Mechanics Universal Joint Div., Borg-War-ner Corp., 2020 Harrison Ave., Rockford Ill.

Morflex—See Morse Chain Co
Morse Chain Co Itaca N Y "Morflex"
Neapco Products Inc South & Cross Str
Pottstown Pa
Republic Gear Co 2197 Beaufait Ave Detroit
7 Mich

T Mich
Rockwell-Standard Corp Transmission &
Axle Div 100 Clark Ave Detroit 32 Mich
"Timken-Detroit"
Rockwell-Standard Corp Universal Joint Div
1 Glass St Allegan Mich
Saginaw Steering Gear Div General Motors
Corp 3900 Holland Rd Saginaw Mich

Spencer Mfg Co 225 N Main St Spencer Ohio Spicer—See Dana Corp Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio Timken-Detroit — See Rockwell-Standard U. S. Azle Co., Water St., Pottstown, Pa.

SHAFTS, Rear Axle

(Shafts only; for complete axles-See

Axies, Rear)

Canton Drop Forging & Mfg. Co., 207 12th
St., S. E., Canton, Ohio.

Detroit Bevel Gear Co., \$130 Jos. Campau
Ave., Detroit 11, Mich.
Foote Axie & Forge Co 3954 Whiteside St
Los Angeles 63 Calif
International Parts Corp., 11th & State Sts.,
Chicago 6, Ill.

Chicago 5, III. empco Products Inc 5490 Dunham Rd Bed-Chicago 5, III.

Lempco Products Inc 5490 Dunham Rd Bedford Ohio

Napco Industries Inc Napco Axie Div \$34 N
Seventh St Minneapolis 11 Minn
Republic Gear Co 2197 Beaufalt Ave Detroit 7 Mich
Rockwell-Standard Corp Transmission &
Axie Div 100 Clark Ave Detroit 32 Mich
"Timken-Detroit"
Spencer Mfg Co 225 N Main St Spencer Ohio
Steel and Tubes Inc 224 E 131st St Cleveland Ohio
Timken-Detroit — See Rockwell-Standard

Timken-Detroit - See Rockwell-Standard

U S Axle Co Inc Water St Pottstown Pa

SHAFTS, Transmission and Clutch

Automotive Gear Div Eaton Mfg Co S 8th & O Sts Richmond Ind "Double Diamond"

(Transmission)
Detroit Bevel Gear Co 8130 Jos Campau Ave
Detroit 11 Mich
Dittmer Gear Div Borg-Warner Corp Au-

Dittmer Gear Div Borg-Warner Corp Au-burn Ind Double Diamond—See Automotive Gear Div

Eaton Mfg Co Morks Inc 5357 S Kirkwood Ave Cudahy Wis Toledo Steel Products Co., 724 Monroe St., Toledo I, Ohlo. (Pump.)

SHAFTS, Valve Rocker Arm

Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill

SHAFTS, Water Pump

SHAFTS, Water Pump

(See also Parts, Water Pump)

Aluminum Industries Inc 3670 Werk Rd
Cincinnati 11 Ohio "Permite"
Brown Corp 213 Bellevue Ave Syracuse N Y
Bull Dog—See Jambor Tool & Stamping Co.
Chicago Screw Co Div of Standard Screw
Co 2701 Washington Blvd Bellwood III
Jambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee 10, Wis. "Bull Dog." (For
Ford, Chevrolet & Plymouth cars.)
Modern Machine Works, Inc., 5257 S. Kirkwood Ave., Cudahy, Wis.

OSP—See Ottawa Steel Products, Inc.
Ottawa Steel Products, Inc., 745 Woodlawn
Ave., Grand Haven, Mich. "OSP."
Permite—See Aluminum Industries, Inc.

Excelsior Tool & St. Clari Ave., Cincinnati Shapel
Ciceland Punch
St. Cara Ave., Cincinnati Shapel
Ciceland Punch
St. Clari Ave., Cincinnati Shapel
Ciceland Punch
Cice

SHAPERS, Metal

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Atlas" & "Clausing"
Cincinnati Shaper Co., Hoppie, Elam & Garrard Sts., Cincinnati Sb., Ohio.
Clausing—See Atlas Press Co Delta-Rockwell—See Rockwell Mig Co i., & E.—See Gould & Eberhardt, Inc., Gould & Eberhardt, Inc., 423 Fabyan Place, Irvington 11, N. J. "G. & E."
Hy-Draulic—See Rockford Machine Tool Co. Logan Engineering Co., 4901 W. Lawrence Ave., Chicago 30, Ill.
Mesta Machine Co., Box 1466, Pittsburgh 30, Pa.
Michigan Tool Co 7171 McNichols Rd El Detroit 12 Mich "Shear Speed" (Special for gears, etc.)

Morton Mfg. Co., Broadway & Hoyt St.,
Muskegon Heights, Mich.
Onsrud Machine Works Inc Machine Tool
Div 7720 N Lehigh Ave Niles Ill (Non-

ferrous)
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn (Vertical)
Rockford Machine Tool Co., 2400 Kishwaukee
St., Rockford, Ill. "Hy-Draulic."
Rockwell Mfg Co Delta Power Tool Div 400
N Laxington Ave Pittsburgh & Pa "DeltaRockwell"
Shear Speed—See Michigan Machine

Shear Speed-See Michigan Tool Co

Sheldon Machine Co., 4240 N. Knox Ave.,

Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
Smith & Mills Shaper Div Nebel Machine Tool Co 3401 Central Parkway Cincinnati 25 Ohio
South Bend Lathe Works 425 E Madison St South Bend 22 Ind Steptoe—See Western Machine Tool Works Western Machine Tool Works St Holland Mich "Steptoe" "Steptoe-Western" Western

Beach Mfg. Co., Mill & High Sts., Montrose,

Pa.
Bolce-Crane Co., 930 W. Centrai ave., ledo 6, Ohio.
Colladay Machine Works, 125 E. Luray St., Pbiladelphia 20, Pa.
Delta-Rockwell—See Rockwell Mfg Co.
De Walt Inc Fountain Ave Lancaster Pa.
Goodspeed Machine Co., 202 Spruce St., Winchendon, Mass.
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Mack Machine & Tool Co., 2547 Connor St.,

ford, III. Moak Machine & Tool Co., 2547 Connor St., Port Huron Mich Onsrud Machine Works Inc Machine Tool Div 7720 N Lehigh Ave Niles III (Hand and automatic)

automatic)
Power & Co., L., 2810 Oakford St., Philadelphia 46, Pa.
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa "DeltaRockwell"

Wallace & Co J D 800 N Detroit St Warsaw Ind

Mhitney & Son Baxter D 507 Jackson St Greensboro N C Yates-American Machine Co Beloit Wis

SHARPENERS, REAMER — See Machines, Grinding (Reamer & Cutter)

SHARPENERS, SAW-See Machines, Grind-

SHEARS, Alligator

Canton—See Hill Acme Co "Canton" Div Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn D & K—See Doelger & Kirsten Inc Doelger & Kirsten Inc 3015 W Chambers St Milwaukee Wis "Milwaukee" "D & K" Hendley & Whittemore Co Box 959 Beloit Wis

Wis Hill Acme Co "Canton" Div 1201 W 65th St Cleveland 2 Ohio "Canton" Mesta Machine Co., Box 1466, Pittsburgh 30. Milwaukee-See Doelger & Kirsten, Inc.

SHEARS, Jig (Motor Driven)

SL—See St. Louis Tool Co. St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "SL."

Cincinnati Shaper Co Hopple Elam & Garrard Sts Cincinnati 25 Ohio
Cieveland Punch & Shear Works Co., 3917
St. Clair Ave. Cleveland. Ohio.
Diamond Machine Tool Co 5111 Coffman-Pico Rd Fico Calif
Di-Acro-See O'Neil-lirwin Mfg. Co.
Excelsior Tool & Machine Co 31st St & Ridge Ave East St. Louis III
Heavy Machine Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio
"Steelweid"
Hill Aeme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Bar-billet)
Kling Bros Engrg Works 1320 N Kostner Ave Chicago 51 III
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio
Mackintosh-Hemphill Div E W Bliss Co 901
Blingham St S S Pittsburgh 3 Pa
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mesta Machine Co., Box 1466, Pittsburgh 30.

Pa.
Niagara Machine & Tool Works, 683 NorthNesta Machine Co., Box 1466, Pittsburgh 30.

SHEET METAL CUTTING TOOLS—See
ters, Sheet Metal

Pa.

ra. Niagara Machine & Tool Works, 683 North-land Ave., Buffalo 11, N. Y. O'Neil-Irwin Mfg. Co., Lake City, Minn. "Di-Acro." 'Di-Acro. "Di-Acro."
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexto."
Pexto—See Peck, Stow & Wilcox Co.
Simonds Saw & Steel Co 470 Main St Fitch-

burg Mass Steelweld—See Heavy Machine Div Cleveland Crane & Engrg Co

SHEARS, Portable Electric

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Porto-Shear" Millers Falls Co Greenfield Mass

Porto-Shear—See Black & Decker Mfg Co Skil Corp 5033 Elston Ave Chicago 30 Ill "SkilShear"

Skinsnear Stanley Electric Tools, Div. of Works, 480 Myrtle Ave., New Conn. "Stanley Unishear." of Stanley Britain,

SHEARS, Rotary

Bliss Co E W 1420 Hastings St Toledo 7 Ohio Ohio
Browne & Sharpe Mfg Co 235 Promenade
St Providence R I
Cowles Tool Ce., 2086 W. 110th St., Cleveland, Ohio.
Illinite—See Illinois Tool Works
Illinois Tool Works, 2501 N. Keeler Ave.,
Chicago 39 Ill "Illinite"
King Bros Engrg Works 1320 N Kestner
Ave Chicago 51 Ill
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexte."
Pexto—See Peck, Stow & Wilcox Co.
Simonds Saw & Steel Co 470 Main St Fitchburg Mass

burg Mass Toder Co., 5500 Walworth Ave., Cleveland 2, Ohio.

SHEARS, Slitting

HEARS, Sitting
Bertsch & Co., Cambridge City, Ind.
Biss Co E W 1375 Raff Rd S W Canton Ohio
Cleveland Punch & Shear Works Co., 3917
St. Clair Ave., Cleveland, Ohio.
Fitchburg Engrg Corp Cleghorn St Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Heinrich Tools Inc 2707 Industrial Drive Racine Wis "Heinrich Handnib"
Hendley & Whittemore Co Box 959 Beloit
Wis

Hendley & Whittemore Co 22nd St New Wis
Loma Machine Mfg Co 114 E 32nd St New York 16 N Y
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Peck, Stow & Wilcox Co., 217 Center St.,
Southington, Conn. "Pexto."
Pexto—See Peck, Stow & Wilcox Co.
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Union Tool Corp 800 N Detroit St Warsaw
Ind

Ind
Whitney Metal Tool Co 190 Forbes St Rockford Ill "Whitney-Jensen"
Yoder Co 5553 Walworth Ave Cleveland 2
O (Rotary gang)

SHEARS and SNIPS, Metal

All-Alloy—See Bremil Mfg Co Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Blue Bird." Blue Bird.—See Bergman Tool Mfg. Co. Blue Point.—See Snap-On Tools Corp. Boker & Co H 101 Duane St New York 7 N Y

Boker & Co H 101 Duane St New York 7 N Y
"Tru Brand"

Bremil Mfg Co 1020 Holland St Erie Pa
"All-Alloy"

Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.

Kraeuter & Co 585 18 Ave Newark 3 N J

Niagara Machine & Tool Works, 683 Northland Ave, Buffalo 11, N. Y.

Peck, Stow & Wilcox Co., 217 Center St.,

Southington, Conn.

Proto Tools 2209 Santa Fe Ave Los Angeles
54 Calif

54 Calif St Pierre Chain Corp Frank St Worcester Mass (Chain shears) Snap-On Tools Corp., 8046 28th Ave., Ken-osha, Wis. "Blue Point." Tru Brand—See H Boker & Co Wiss & Sons Co., J., 38 Littleton Ave., New-ark 7 N J

SHEET METAL CUTTING TOOLS—See Cutters, Sheet Metal

(See also Stampings, Metal) Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

SHEET METAL FASTENERS—See Fasteners, Sheet Metal

SHEET MET METAL LEVELERS-See Levelers,

SHEET METAL TESTING MACHINES—See Machines, Testing (Metal)

SHEET METAL WORKING MACHINES—See Machines, Sheet Metal Working

SHEET STEEL LIFTERS-See Lifters, Sheet

SHEETS, AUTOMOBILE BODY-See Steel,

SHEETS, ROD AND TUBES, PLASTIC—See Plastics—Sheets, Rods, Tubes and Filaments SHEETS, TRANSPARENT - See Plastics-Sheets (Transparent)

SHERARDIZING—See Galvanizing, Sherardizing and Rust-proofing
SHIELDS, EYE—See Goggles, Mechanics' and
Welders'

SHIELDS, WIND-See Windshields

SHIFTERS; Gear

Bendix Products.Div Bendix Aviation Corp South Bend 20 Ind (Power and automatic) Champ-Items Inc 5191 Maple Ave St Louis 14 Mo (Mechanical, for Chevrolet cars)

SHIMS, Babbitted

Laminated Shim Co 62 Union St Glenbrook Conn "Laminum" Laminum—See Laminated Shim Co.

SHIMS, Brass and Copper

HIMS, Brass and Copper
Acme Mfg. & Gasket Co., 733 N. 41st St.,
Philadelphia 4, Pa.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y (Brass)
Keystone Gasket Mfg. Co., 833 N. Fourth
St., Philadelphia 23, Pa.
Kickhaefer Mfg Co 903 S Second St Milwankee 4 Wis

St. Philadelphia 23, Fa.

Kickhaefer Mfg Co 908 S Second St Milwatkee 4 Wis
Konigslow Mfg Co Otto 3600 Perkins Ave
Cleveland 14 Ohio
Laminated Shim Co 62 Union St Glenbrook

Laminated Shim Co 62 Union St Glenbrook Conn McCord Corp Riopelle at E Grand Bivd Detroit 11 Mich National Seal Div Federal-Mogul-Bower Bearings Inc Broadway at National Ave Redwood City Calif (Brass) Rotax Mfg Co 175 Ridge St Newark 4 N J (Brass stock) United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Ganket Co., 5750 W. Roosevelt Rd., Chicago 56, Ill. (Brass)
Whitehead Stamping Co., 1661 W. Lafayette Bivd., Detroit 16, Mich.
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

SHIMS, Connecting Rod

Keystone Gasket Mfg. Co., \$33 N. Fourth St., SHOES. Brake Philadelphia 23. Fa. Laminated Shim Co 62 Union St Glenbrook
Amco—See Asb Asbestos Mfg. Co.

SHIMS, Laminated

BHIMS, Laminated
Baisdell Mfg Co 1350 Coronado Ave Long
Beach 4 Calif "Feathered" (Bearing)
Feathered—See Blaisdell Mfg. Co.
Federal-Mogul Service Div of FederalMogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich
Fit-All—See Laminated Shim Co.
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y "Micro-Shim"
Keystone Gasket Mfg. Co., 833 N. Fourth St.
Philadelphia 23, Pa.
Laminated Shim Co 62 Union St Glenbrook
Conn "Laminum" "Fit-All" (Brass and
steel)

steel)
Laminum—See Laminated Shim Co.
Micro-Shim—See Gasket Packing & Specialty Co
National Seal Div Federal-Mogul-Bower
Bearings Inc Broadway at National Ave
Redwood City Callf
Wisconsin Gasket & Mfg Co 8724 N Granville
Rd Granville Wis

SHIMS, Lead and Lead Alloy

Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Wisconsin Gasket & Mfg Co 8724 N Granville
Rd Granville Wis

SHIMS, Steel

Acme Mg. & Gasket Co., 738 N. 41st St., Philadelphia 4. Pa.

Allmetal Screw Products Co 321 Stewart Ave Garden City N (Stainless)

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y

Bender Equipment Co J H 5430 Tweedy Bird South Gate Calif

Bull Dog—See Jambor Tool & Stamping Co.

SIGHT FEED OILERS—See Ollers, Sight Feed

Champ-Items Inc 6191 Maple Ave St Louis
14 Mo
De-Sta-Co-See Detroit Stamping Co.
Detroit Stamping Co., 357 Midland Ave.,
Detroit 12 Mich. "De-Sta-Co."
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L 1 N F.
Jambor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee 10, Wis. "Bull Dog."
Keystone Gasket Mig. Co., \$33 N. Fourth
St., Philadelphia 23. Pa.
Konigslow Mig Co Otto 3600 Perkins Ave
Cleveland 14 Ohio
Laminated Shim Co 62 Union St Glenbrook
Con

Conn

Conn National Seal Div Federal-Mogul-Bower Bearings Inc Broadway at National Ave Redwood City Calif Simonds Saw & Steel Co 470 Main St Fitch-Redwood Simonds Sav

burg Mass Standard Supply Co 5920 Bryant St Pitts-burgh 6 Pa United Screw & Bolt Corp., 2590 W. 58th St., Cleveland, Ohio. Victor Mfg. & Gasket Co., 5750 W. Roose-velt Rd., Chicago 50, Ill.

SHOCK ABSORBERS, Auto (Friction, Hydraulic and Pneumatic)

Blackstone Mfg Co 4630 W Harrison St Chl-cago 44 Ill "Guide-Rite" Briggs Shock Absorber Co 1148 Euclid Ave Cleveland 15 Ohlo (Hydraulic) Columbus—See Heckethorn Mfg & Supply

Columbus—See Heckethorn Mfg & Supply Co
Delco Products Div., General Motors Corp.. 329 E. First St., Dayton, Ohio, (Hydraulic.)
Gabriel Co 1148 Euclid Ave Cleveland 15 Ohio "Gabriel" "Golden Glide"
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N. J.
Golden Glide—See Gabriel Co
GorDag Industries Inc 3954 Woodale Ave
Minneapolis 16 Minn (Sprins)
Guide-Rite—See Blackstone Mfg Co
Heckethorn Mfg & Supply Co Dyersburg
Tenn "Columbus" (Licensees)
Houdaille Industries Inc Buffalo Hydraulics
Div 537 E Delavan Ave Buffalo 11 N Y
Monroe Auto Equipment Co., 1426 E. First
St., Monroe, Mich. "Monro-Matic" (Hydraulic.)

St., Monroe, Mich. "Monro-Matic" (Hydraulic.)
Moog Industries Inc 6650 Easton Ave St
Louis 14 Mo

Moog Industries Inc 6050 Easton Ave S Louis 14 Mo Sky-Ride—See Thompson Products Inc Thompson Products Inc 23555 Euclid Av Cleveland 17 Ohio "Sky-Ride" (Hydraulic) Toledo Steel Products Div Thompson Prod ucts Inc 6402 Cedar Rd Cleveland 3 Ohio

Amco-See Asbestos Mfg Co Asbestos Mfg Co E Sabine St Huntington Ind "Amco" (Bonded) Bendix Products Div Bendix Aviation Corp South Bend 20 Ind (Lined) Delco-See Morsine Products Div Fe-adco Corp 12345 Schaefer Rd Detroit 27

Fe-adco Corp 12345 Schaefer Ru Mich
Grey Rock Div of Raybestos-Manhattan Irc
Manheim Pa
Grizzly Mfg Div of MarPro Inc 700 W Caroline St Paulding Ohio
Imco Mfg & Sales Co 10 F Lafayette Ave
Baltimore 2 Md (Lined and unlined)
Miley Co L J 18 S Sangamon St Chicago
7 III
Moraine Products Div General Motors Corp

7 III
Moraine Products Div General Motors Corp
1420 Wisconsin Blvd Dayton Ohlo "Delco"
(For GMC cars and light trucks)
National Vulcanized Fibre Co Maryland Ave
& Beech St Wilmington 99 Del (Fibre)
Pick Mfg Co West Bend Wis (Lined and un-

lined)

Ined)*
Raybestos Div of Raybestos Manhattan Inc
75 E Main St Stratford Conn
Raybestos-Manhattan Inc Equip Sales Div
Stratford Conn "R/M"
Thermoid Co Whitehead Rd Trenton 6 N J
Wagner Electric Corp 6400 Plymouth Ave
St Louis 14 Mo

(See also Thermostats, Water Circu-

Brewer-Titchener Corp., 115 Pt. Watson St.,
Cortiand. N. Y. "Moto-Gard." (For buses
and trucks, hand operated)
Hardy Mig Corp W. Pearl St. Union City
Ind (Automatic and hand operated)
Kysor Heater Co. Haynes St. Cadillac Mich.
(Automatic and hand operated)
Minneapolis-Honeywell Regulator Co. Transportation Div 2783 Fourth Ave S. Minneapolis 8 Minn (Automatic)
Moto-Gard—See Brewer-Titchener Corp.

Champ-Items Inc 6191 Maple Ave St Louis SIGNALS, Direction Indicating (Auto and Truck)

(Indicates when turn or stop is about to be made)
Advanced Mfg Inc "38 W 17th St Costa Mesa Calif

American Automatic Devices Co Harrison Throop & Congress Sts Chicago 7 Ill "King Bee" (Truck) Anthes Force Oller Co Ft Madison Iowa (Truck)

(Truck)
Arrow Safety Device Co., Mt. Holly, N. J.
(Also flashing stop lights.)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Pathfinder" also "Alco" (Conversion units for converting parking, stop and tail lights into direction indicating signals)

Betts Machine Co 1800 Pennsylvania Ave W

Betts Machine Co 1500 Pennsylvania ave w Warren Pa Bolser Corp S Main St Cedar Falls Iowa (For trucks) Campeo—See Carolina Metal Products Corp Carolina Metal Products Corp 2222 South Blvd Charlotte 5 N C "Campco" (Sema-

BIVG Charlotte 5 N C "Campco" (Sema-phores)
Catseye—See Columbus Metal Products Co
Columbus Metal Products Co 1341 Norton
Ave Columbus 8 Ohio "Catseye"
Dietz Co R E 225 Wilkinson St Syracuse 1
N Y (Truck)

Y (Truck)

N Y (Truck)

Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Do-Ray Turn-Lit." (Also conversion kits for passenger cars)
Electric Auto-Lite Co Toledo 1 Ohio
Electric Service Works Delta Star Electric Div H K Porter Co 17th & Cambria Sts Philadelphia 32 Pa "Keystone"
Electroline Mfg Co 2622 E 51st St Cleveland

4 Ohio

4 Ohio
Fineline—See Peterson Mfg Co
Griffin Lamp Co 401 S Third St Hamilton
Ohio (Also conversion kits)
Grote Mfg Co Lafayette & Grandview Aves
Bellevue Ky (Also combination stop tail
and license brackets)
Guide Lamp Div. General Motors Corp., 25th
St. & Arrow Ave., Anderson, Ind.
Indusco-Lite—See Industrial Scientific Co P O Box 494 Fresno
9 Calif "Indusco-Lite" (Semaphore type
for trucks)

9 Calif 'indusco-Late for trucks) -D Lamp Co 1910 Elm St Cincinnati 10

Ohio Ching Control of the Control of Control King Bee-See American Automatic Devices

Miro-Flex Co 1824 E 2nd St Wichita 7 Kans Parker Products Inc 1415 Washington Ave S Minneapolis 4 Minn "Parker Direct-A-

Pathfinder-

Lite"
athfinder—See Auto Lamp Mfg. Co.
Peterson Mfg Co 2716 E 14th St Kansas City
27 Mo "Fineline"
tayl Mfg Co 217 5th St Oakland 7 Calif
(Semaphores)
ting-Wald Products, 123 N. Lowry Ave.,
Springfield, Obio. (Stop semaphores, for Ring-Wald

achool buses.)

8 & M Lamp Co 119 W 36th Pl Los Angeles

54 Calif (For trucks and buses)

Saf-Stop-Fin-Lite—See Sinko Mfg & Tool Co
Signal-Stat Corp Signal-State Bldg 523 Kent

Ave Brooklyn 11 N Y (Auto bus and

truck)
Sinko Mfg & Tool Co 3135 W Grand Ave Chicago 22 Ill "Saf-Stop-Fin-Lite" (Auxiliary)
Sparton Automotive Div of Sparton Corp
Jackson Mich (Also stop lights and combination stop and tall; and conversion kits
for passenger cars)
Speaker Corp J W 3059 N Weil St Milwaukee
12 Wis
Turnmaster See Vanker

Turnmaster-See Yankee Metal Products

Corp
Turnsignal Co 2720 W Susquehanna Ave
Fhiladelphia 21 Pa (Truck)
U. S. Metal Products Co., 1045 Atlantic Ave.,
Brooklyn 23, N. Y. "U. S. Pioneer."
U. S. Pioneer—See U. S. Metal Products Co.,
Yankee Metal Products Corp., 25 Grand St.,
Norwalk Conn ("Yankee Jr" Truck;
"Turnmaster" auto; also conversion units
for converting parking and tail lights inte
flashing signals)

SIGNALS, Excess Speed

A C The Electronics Div of General Motors Corp 1300 N Dort Highway Flint 2 Mich Autoelectronics Inc 948 W 19th St Elwood Ind "Speedalarm"

SIGNALS, Low Air Pressure, Brake (Auto)

Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio

Berg Safe-Air Corp 1712 S Michigan Blvd Chicago 16 III Cole-Hersee Co 20 Old Colony Ave Boston 27

Mass asco Industries Inc 400 Davis St Rochester

Fasco Industries Inc 400 Davis St Rochester 2 N Y
Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Pressure-Clix"
(Sole distributors, Nason Co 20 W Washington St Clarkston Mich)
Monroe Standard Inc Wyandot Bidg Galion
Ohio "Wig-Wag"
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokle Ill

way Ave Skokie Ill Wig-Wag-See Monroe Standard Inc

SIGNALS, Low Oil Pressure (Engine) (Protection against lost oil)

(Protection against lost oil)

Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Pressure-Cilx"
(Sole distributors, Nason Co 20 W Washington St Clarkston Mich)

Kysor Heater Co Haynes St Cadillac Mich "Kysor Pressurestat"

Moto-Gard Co 1104 W Cabarrus St Raleigh N C (Also stops engine)

Stewart-Warner Corp Instrument Div 1826
Diversey Parkway Chicago 14 Ill

Synchro-Start Products Ine 8151 N Ridge-way Ave Skokie Ill

SIGNALS, Low Vacuum (Brake)

(Mounted on cars, trucks and buses) Monroe Standard Inc Wyandotte Bldg Gal-ion Ohio "Private Eye" "Sure-Vac" (Trucks and buses)

SIGNALS, Oil Level

King-Seeley Corp 315 S First St Ann Arbor Mich "K-S" Corp 404 S E 202nd Ave Port

SIGNALS, Water Temperature (Auto. Truck, Bus)

Truck, Bus)

(Protection against overheating)

Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Thermo-Clix"
(Sole distributors, Nason Co 20 W Washington St Clarkston Mich)

Kysor Heater Co Haynes St Cadillac Mich
"Kysor Alarmstat" C Haynes St Raleigh
NC (Also stops engine)

Synchro-Start Products Inc S151 N Ridgeway
Ave Skokle III
Water-Larm Corp 404 S E 202nd Ave Portland 33 Ore

SIGN BOARDS, for Stake Bodies

K & B-See Kirk & Blum Mfg. Co. Kirk & Blum Mfg Co 3120 Forrer St Cincin-nati 9 Ohio "K & B"

SIGNS. Illuminated Destination for Buses

Electric Service Works Delta Star Electric Div H K Porter Co 17th & Cambrira Sts Philadelphia 32 Pa "Destinator"

SILENCERS, Carburetor Intake

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Houdaille Industries Inc Buffalo Hydraulics Div 537 E Delavan Ave Buffalo 11 N Y United Specialties Co of Illinois 9705 Cot-tage Grove Ave., Chicago 28 III

SILICONE. Fluid

Dow Corning Corp Midland Mich

SILICONE RUBBER-See Rubber, Silicone SIREN HORNS-See Horns, Siren IX WHEEL ATTACHMENTS - See Axie Units, Third, for Trucks

SKIN PROTECTION COMPOUNDS—See Com-

SLEEVES, Cylinder

Accuralite—See American Hammered Auto Replacement Div

Replacement Div Aluminum Industries Inc 3670 Werk Rd Cin-cinnati 11 Ohio "Permite" American Hammered Automotive Replace-ment Div of Sealed Power Corp Accuralite Div 2001 Sanford St Muskegon Mich "Ac-curalite"

curalite"
Campbell, Wyant & Cannon Foundry Co.,
Muskegon Mich (Centrifugally cast)
Centrifugal Foundry Co 1367 W Sherman
Blyd Muskegon Mich

Detroit Sleeve Mfg Co 9373 Hubbell St Detroit 28 Mich

Detroit Sleeve Mfg Co 9373 Hubbell St Detroit 28 Mich
Dura-Bond Bearing Co 715 Loma Verde Ave Palo Alto Cailf "Dura-Cast"
Ertel Products Co Repl Div of Ertel Mfg Corp 1402 E 20th St Indianapolis 7 Ind Frank Foundries Corp 2020 Third Ave Moline Ill "Frankite"
Hub City Iron Co 218 First Ave SW Aberdeen S D Janney Cylinder Co 7425 State Rd Philadelphia 36 Pa (Special to order)
McQuay-Norris Mig. Co., 2220 Marconi St., St. Louis, Mo.
Nylen Products Inc U S 12 Bridgman Mich Ohio Piston & Machinery Co 5340 Hamilton Ave Cleveland 14 Ohio Permite—See Aiuminum Industries. Inc. Sealed Power Corp 2001 Sanford St Muskegon Heights Mich Shenango Furnace Co Centrifugal Cast Products Div Dover Ohio (Centrifugally Cast)

cast)
Superior—See White Machine Works.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio
Toledo Steel Products Div Thompson Products Inc 5402 Cedar Rd Cleveland 3 Ohio
(Wet and dry assemblies)
Verspick Mfg Co Madisonville Ky (Dry type)

White Machine Works, 1401 Bellevue Eau Claire, Wis. "Superior."

SLOTTERS—See Machines, Slotting

SLOTTING BLADES, SCREW—See Metal Slitting and Screw Slotting

SNAP FASTENERS-See Fasteners, Snap

SNOW PLOW ATTACHMENTS-See Plows.

SNUBBERS-See Straps, Rebound

SOCKETS, Lamp (Electric)

A M P Inc Harrisburg Pa Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. Crescent Co., 26 Central Ave., Pawtucket. R. I. "Wiry Joe." (Headlamp assemblies.) Cuiver-Stearns Mfg Co 181 Greenwood St Worcester ? Mass Delta Electric Co., 33rd & Nebraska Sts., Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
Douglas Mig. Div., Kingston Products Co., Railroad. St., Bronson, Mich.
Eagle Electric Mig Co 23-10 Bridge Plaza South Long Island City 1 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 6 Brooklyn 23 N Y
United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Watts Electric & Mig Co 2222 E Maple Rd
Birmingham Mich
Wiry Joe—See Crescent Co.

SOCKETS, Nut

Apex Machine & Toot Co 1025 Patterson Blvd Dayton Ohio

SOCKETS, WRENCH-See Wrenches, Socket

SOCKETS and SLEEVES, Drill

Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. Scully-Jones & Co 1977 S Rockwell St Chi-cago III "Scully-Jones" "Use-Em-Up" Use-Em-Up—See Scully-Jones & Co. Whitman & Barnes, Div. of United Drill & Tool Corp 40085 Plymouth Rd Plymouth

SOLDER

(See also Solder, Self-Fluxing)

(See also Solder, Seif-Fluxing)
All-State Weiding Alloys Co 273 Ferris Ave
White Plains N Y (Silver)
Alpha Metals Inc 56 Water St Jersey City
N J "Alpha" (Acid core rosin core
and solid wire sheet and body)
Almaweid—See Johnson Mig. Co.
American Platinum Works N J R R Ave at
Cilver St Newark 5 N J "Silvalov" (Silver)
Atomized Materials Co 207 Rauch Bidg Pitts
burgh 5 Pa "KwikMetal" (Body)
Belmont Smelting & Refining Works 226e

Atomized Materials Co 207 Rauch Bidg Pitts burgh 5 Pa "KwikMetai!" (Body)
Belmont Smelting & Refining Works, 226g
Belmont Ave., Brooklyn. N. Y. (Body.)
Bohn Aluminum & Brass Corp 1400 Lafayette
Bidg Detroit 28 Mich
Rond—See W W Punton Co.
Bunker Hill Co Fifth Floor 600 Market St
San Francisco 4 Calif (Bar wire strip

Carborundum Co Buffalo Ave Niagara Falls Champion-See Division Lead Co.

rate Farco Farrelloy Elled (Wire action core and rosin core) Pederated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y "Federated" (Filler and wire; "Star" body; "Federated Castomatic" bar and ingot)

Star-See United American Metals

Five Star—See United American Metals
Corp.
Gem—See M. W. Dunton Co.
General—See M. W. Dunton Co.
General—See M. W. Dunton Co.
Gold Eagle Products Co 1050 W Kinzle St
Chicago 22 Ill (Radiator)
Graph-Tex—See Greenleaf Corp.
Greenleaf Corp., 512 Franklin Ave., Pittsburgh 21. Pa. "Graph-Tex."
Handy & Harman, 81 Fulton St., New York
28, N. Y. "Easy-Flo" "Sil-Fos." (Silver.)
Hewitt Metals Corp 12th St at Stanley Ave
Detroit 8 Mich (Ingot, bar, wire, acid and
rosin core; also body solder in ingot bar
and cake) and cake)

and cake)
Hollingshead Corp., R. M., Ninth & Cooper
Sts., Camden, N. J. (Radiator.)
Ideal—See M. W. Dunton Co.
Industrial—See United American Metals

Johnson Mfg Co 616 N First Ave Mt Vernon lowa "Alumaweld"

Johnson Mig Co 616 N First Ave Mt Vernon Iowa "Alumaweld"
Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill (Wire body ar radiator)
KwikMessee M W Dunton Co KwikMetal—See Atomized Materials Co Lenk Mig Co Franklin Ky (Bar and wire)
Lightning—See United American Metals Corp.

Corp. Bearing Co. 102 Lethron St. Buffalo Corp. Lumen Bearing Co., 197 Lathrop St., Buffalo 12, N. Y.

18, N. Y.
Makepeace Co., D. E., Dunham & Pine Sts.,
Attleboro, Mass. (Silver and gold.)
Meco—See Modern Engrg Co
Modern Engrg Co 3411 Pine Blvd St Louis 3

Mo "Meco"
National Lead Co., 111 Broadway, New York
6, N. Y. "Dutch Boy." (Body, acid core
and solid wire.)
New York Solder Co 684 E 133rd St New
York 54 N Y "Standard" (Acid core and
rosin core: "Sure Flux" (Solid wire, bar
and hody)

and body)

rosin core; "Sure Flux" (Solid wire, bar and body)

Nokorode—See M W Dunton Co
North American Smelting Co Marine Terminal, Wilmington, Del (Body bar wire ingot ribbon and flux-filled)

Pal-Weld Mig Co 103 Lander St Seattle 4, Wash

Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko" (Body)

Presstite-Keystone Engrg Products Co 3900 Chouteau St St Louis 10 Mo

Press Work Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich River Smelting & Refining Co 4195 Bradley Rd Cleveland 1 Ohio "River RS" (Body)
Sil-Fos-See Handy & Harman Silvaloy—See American Platinum Works Standard—See New York Solder Co Star—See Federated Metals Div Super—See M W Dunton Co
Surse Flux—See New York Solder Co
Swiss Laboratory 1533 Hamilton Ave Cleveland 14 Ohio (Body, acid core and solid wire)

United American Metals Corp 970 Meeker Ave Brooklyn 28 N Y ("Lighthing" Rody:

wire)
United American Metals Corp 970 Meeker
Ave Brooklyn 22 N Y ("Lightning" Body;
"Five Star" bar "Idustria!" radiator;
United Wire & Supply Corp., 1497 Elmwood
Ave., Providence 7. R I. (Silver.)
Wayne Chemical Products Co., Copeland
Ave & M C R R Detroit Mich
Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

SOLDER, Aluminum

Alcoa—See Aluminum Co of America
All-State Welding Alloys Co 273 Ferris Ave
White Plains N T
Aluminum Co of America 1501 Alcoa Bidg
Pittsburgh 19 Pa "Alcoa"
Aluminum Fix Co., 1850 E. 122rd St., Cleveland Obio
Belmont Smelting & Refining Works, 326a
Belmont Ave., Brooklyn, N. T.

SOLDER, Aluminum-continued

Divco-See Division Lead Co. Division Lead Co 7742 W 61st Pl Summit Ill

Division Lead Co 7742 W 61st Pl Summit III

"Divco"
Ensign Products Co., 2528 E. 76th St., Cleveland 5, Ohio.
Eutectic Welding Alloys Corp 40-40 72nd St
Flushing N Y
Falls—See Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc
Pederated Metals Div American Smelting &
Refining Co 120 Broadway New York 5
N Y

No Y Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit S. Mich.
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa "Alumaweld"
Kindt-Collins Co., 12651 Elmwood Ave., Cleveland 11, Ohio. "Master."
Lenk Mfg Co Franklin Ky "Super"
Master-See Kindt-Collins Co.
National Aluminum Co., 1912 Edgewood Ave., Racine. Wis. "Stick-Well."
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204
Elmwood Ave Buffalo 23 N Y "Falls"
Pal-Weld Mfg Co 103 Lander St Seattle 4
Wash

Wash
River Smelting & Refining Co 4195 Bradley
Rd Cleveland 1 Ohio "River RS"
Stick-Well—See National Aluminum Co
Super—See Lenk Mfz Co
Syracuse—See United American Metals Corp
United American Metals Corp 976 Meeker
Ave Brooklyn 22 N Y "Syracuse"

SOLDER, BODY-See under Solder

SOLDER GASKETS AND WASHERS—See Gaskets, Lead and Lead Alloy

SOLDER, PLASTIC-See Fillers, Plastic and Metallic

SOLDER, Self-Fluxing

(See also Solder)

Belmont Smelting & Refining Works 226a Belmont Ave Brooklyn N Y Divoc—See Division Lead Co Division Lead Co 7742 W 61st Pl Summit Ill

Divec "Divco"
Federated Metals Div American Smelting
& Refining Co 120 Broadway New York
5 N Y "Federated-Gardiner" (Acid core

5 N Y "Federated-Gardiner" (Acid core and rosin core) Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, III. Lenk Mfg Co Franklin Ky Meltomatic—See Wayne Chemical Products

CO., Ruby Chemical Co., 68 McDowell St., Columbus 16 Ohio "Rubyfiuld" Swiss Laboratory 1533 Hamilton Ave Cleveland 14 Ohio

land 14 Ohio

Syracuse—See United American Metals Corp.
United American Metals Corp 970 Meeker
Ave Brooklyn 22 N Y "Syracuse"

Wayne Chemical Products Co., Copeland
Ave. & M. C. R. R., Detroit, Mich. "Meltomatic."

SOLDERING FURNACES-See Furnaces, Sol-

SOLDERING LUGS-See Lugs, Soldering SOLDERING MACHINES-See Machines, Sel-

SOLDER SPRAY GUNS—See Sprayers, Mol-ten Metal

SOLENOIDS, Direct Current

Synchro-Start Products Inc 8151 N Ridge-way Ave Skokie Ill

SOLVENT RECOVERY STILLS—See Stills, Solvent Recovery

SOLVENTS, Oil, Carbon and Grease Removing

(See also Cleaners, Metal)

(See also Cleaners, Metal)

Acme Quality Paints Ine \$250 St Aubin Ave
Detroit 11 Mich "Acme Kiltz"

Actusol—See Du Bois Co.
Allube Corp \$28 Allen Ave Glendale 1 Calif
Alsol Products Co 123 Coit St Irvington N J
Ameroid Dusol—See E. F. Drew & Co.
Aqua-Seal—See Penetone Co
Atomized Materials Co 307 Rauch Bidg Pittsburgh 5 Pa "Kwik-Solv"

Barr & Co W M 2376 S Lauderdale St
Memphis 6 Tenn "Magic Cleaner" "Dip
Kleen" (Sole distributors Klean Strip Co
Box 3865 Memphis 6 Tenn)
Bendiz Products Div Bendix Aviation Corp
South Bend 20 Ind "Bendix Econoclene"
"Bendix Metalclene"

Bi-Phase—See Panther Chemical Co
Biacoslov—See Blakeslee & Co.
Blakoslee & Co. G S 1844 S Laramie Ave
Cicero 60 Ill "Blacosolv"

Blue Ribbon-See International Metal Polish

Brulin & Co 2939 Columbia Ave Indianapolis 7 Ind "Brulin's" & "Brulinsoly" (Oil and

Brulin & Co 2939 Columbia Ave Indianapolis 7 Ind "Brulin's" & "Brulinsolv" (Oil and grease)
Buchanan Chemical Co C G 4640 Baker Rd Cincinnati 12 Ohio "Byr-Ma-Co"
Burhan-See Penetone Co
Byr-Ma-Co—See Buchanan Chemical Co.
Cab 66—See Fischer Industries Inc
Carbon Met—See Curran Corp and Gunk Chicago Co.
Cee-Bee Chemical Co 9520 E Ceebee Drive
Downey Calif "Samson"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Celco Tank-Kleen"
Celco Corp 60 E 42nd St New York 17 N Y
"Cicold" "Circo-Solv"
"Dee-Solv" "Fer-Solv" & "Midsolv"
Circold—See Circo Equipment Co
Circo-Solv—See Circo Equipment Co
Circo-Solv—See Circo Equipment Co
Cisco—See Citics Service Oil Co. (Pa.)
Cities Service Oil Co. (Pa.) 60 Wall Tower
New York 5 N Y "Cisco" "Solvent 26A"
Clayton Mfg Co 401 N Temple City Blvd El
Monte Calif "Kerrick Kermulso"
Colonial Alloys Co Ridge Ave & Crawford
St Philadelphia 29 Pa "Cyclodiene" "Percyclodiene" "Dicyclodiene" "Tricyclodiene" "Polydiene" "Tetradiene" "Methanted" "Trisolvadiene"
Cooper Co., D. C., 1467 S. Michigan Ave.,
Chicago 5, Ill. "D. C."
CrysCoat—See Oakite Products Inc
Crystal Soap & Chemical Co., 6300 State
Rd Philadelphia 35 Pa
Curran Corp S Canal St Lawrence Mass
"Gunk SC" "Motor Purge" "Carbon Met"
"Tooth"
Cyclodiene—See Colonial Alloys Co.
D. C.—See D. C. Cooper Co.

"Tooth" Cyclodiene—See Colonial Alloys Co.
D. C.—See D. C. Cooper Co.
D. C.—See D. D. C. Cooper Co.
D. C.—See Du Bois Co
Dacar Chemical Products Co. Wabash &
McCartney Sts Pittsburgh 20 Pa "Darsol"
Darsol—See Dacar Chemical Products Co
Dee-Solv—See Circo Equipment Co
Deita Chemical Co 2885 Warford Pl Memphis 1 Tenn "Foremost"
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich "Drex-Foam" "Perm-A-Clor"
"Triad"
D-Greso—See Service Supply Co.

"Triad"
D-Greso—See Service Supply Co.
Dicyclodiene—See Colonial Alloys Co.
Dip Kleen—See W M Barr & Co
Diversey Corp 1820 Roscoe St Chicago 13 III
Dow Chemical Co Midland Mich "Chlorotheme"

thene"
rew & Co E F Automotive Chemicals Div
15 F 26th St New York N V "Ameroid
Duosol" "Drew-Ameroid" & "Red-D-Duo-

Drex-Foam-See Detrex Chemical Industries

Du Bois Co 1120 W Front St Cincinnati 3 Ohio "Actusol" "D-Carb" "Sprex AC" Dunkit—See Penetone Co

du Pont de Nemours & Co E i Electrochemi-cals Dept Wilmington "R Del "Perclene" (Perchlorethylene; "Triclene" trichlor-

Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y "Solvesso," "Varsol" Tork 19. N. Y "Solvesso." "Varsol"
Ewing Mfg Co 2545 N W 10th St Oklahoma
City Okla
FO—See Fine Organics Inc
Fine Organics Inc 211 E 19 St New York 3
N Y "FO"

scher Industries Inc Paddock Rd & N & W RR Cincinnati 29 Ohio "CAB-66" "No 85" "Zolvolene" "Metalene 230" Foremost—See Delta Chemical Co Formula 6—See Penetone Co Gerlach Co., A. E., P. O. Box 133, Eddington. Bucks County, Pa. "60 Cleaner," "Soax,"

Gisten Co., 13 Barnard St., Hilisdale, Mich Graymilis Corp 3706 N Lincoln Ave Chi-cago 13 Ili

Gunk-See Curran Corp and Gunk Chicage

Gunk Chicago Co 630 N Harlem Ave River Forest III "Carbon Met" "Gunk" "Gunk Hydro-Seal" (Licensees) Harco—See Harley Soap Co.

Harco—See Harley Soap Co.

Harley Soap Co., Pierce & Orthodox Sts.,
Philadelphia 27. Pa. "Harco."

Heet Div of Demert & Dougherty Inc 3001
W 47th St Chicago 25 Ill "Kleen-Off"

Hi-Fiash—See Penetone Co
Hollingshead Co., R M.. 246 Cooper St..
Camden, N. J. "Whiz Dip-Zoff;" "Whiz
Ho-Zof." (For garage use.)

omestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa. "Hypressure Jenny."

Hypressure Jenny-See Homestead Valve Mfg. Co.

Imperial Wash-er Clean—See Martindale Electric Co. Independence Chemical Co 606 S Water St Philadelphia 47 Pa "Motor Kleen" Industrial Chemical Products Co., 3769 Belle-vue Ave., Detroit 7, Mich. "Industrosolv." Industrosolv—See Industrial Chemical Prodnets Co.

ucts Co.
International Metal Polish Co 1910 Quill St
Indianapolis 7 Ind "Blue Ribbon"
Indianapolis 7 Indianapolis N C Jelzine—See E. A. Gerlach Co.
Keilte Corp 1250 N Main St Los Angeler
Calif

Calif Kerrick Kermulso—See Clayton Mfg. Co Kitson Inc Arthur H 20818 Harper Ave troit 38 Mich "No Wipe" Klearall—See Octagon Process Inc Kleen-Off—See Heet Div of DeMert

DeMert &

Kleen-Off—See Heet Div of DeMert & Dougherty Inc.
Kleer-Flo Co 250 W 57th St New York 19 N Y
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Krylon Inc Ford & Washington Sts Norristown Pa (Oll and grease)
Kwik-Solv—See Atomized Materials Co.
L & R Mfg Co 577 Elm St Arlington N J
Lorco—See Lord Chemical Co
Lord Chemical Co 2068 S Queen St York Pa
"Lorco"

"Lorco" Lubri-Loy Co 6319 Wilson St St Louis 10 Mo "Top-C"
M-M-A Inc Coho Bldg Lancaster Pa "Sprit-

zi!"
Magic Cleaner—See W M Barr & Co
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus," "Magnusol."
Magnusol—See Magnus Chemical Co.
Major—See Penetone Co.
Maritndale Electric Co., 1340 Hird Ave.,
Cleveland 7, Ohio. "Imperial Wash-er
Clean."

Metalene 230-See Fischer Industries Inc Methanted—See Colonial Alloys Co Metso 66—See Philadelphia Quartz Co

Midsolv—See Circo Equipment Co Mitchell-Bradford Chemical Co Wampus Lane Milford Conn "Witch Oil" Motor Kleen—See Independence Chemical

-See Curran Corp. Multisol-See Brulin & Co Navee 42—See Penetone Co No Wipe—See Arthur H Kitson Inc

No 85—See Fischer Industries Inc
Oakite Products Inc 19 Rector St New York
6 N Y "Oakite" "CrysCoat"
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Klearall" "Octastrip"

land 1 N Y "Klearall" "Octastrip" Octastrip—See Octagon Process Inc PDQ—See Standard Oil Co of Calif Panther Chemical Co P O Box ? Worth Tex "Bi-Phase" "Panther" 711 Fort Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko" Parko—See Park Chemical Co.

Parts Master-See Rust Master Chemical

Parts Master—bee Corp

Corp

Peck's Products Co 610 E Clarence Ave St
Louis 15 Mo "Pepco"

Penesolve—See Penetone Co

Penetone Co., 74 Hudson Ave., Tenafiv. N. J

"Aqua-Seal" "Dunkit" "Buxite" "Formula

""Hi-Flash" "Major" "Penesolve"

"Navee 42"

"Hi-Flash" "Major" "Fenesolve"
Navee 42"
Pennsait Chemicals Corp 3 Penn Center
Philadelphia 2 Pa
Penray Co 1532 W Fulton St Chicago? Ill
Pepco—See Peck's Products Co
Perclene—See E. I. du Pont de Nemours &
Co., Electrochemicals Dept.
Percyclodiene—See Colonial Alloys Co.
Permacel-La Page's Inc U S Highway No 1
New Brunswick N J
Perm-A-Clor—See Detrex Chemical Industries Inc
Perm Products Co., 1629 Platte St., Denver

Permo Products Co., 1629 Platte St., Denver 2, Colo. Per Solv—See Circo Equipment Co

Petisol—See Petroleum Solvents Corp Petroleum Solvents Corp 331 Madison Ave New York 17 N Y "Petisol"

Philadelphia Quartz Co 1146 Public Ledger Bldg 6th & Chestnut Sts Philadelphia 6 Pa "Metso 66" Phillex-See Phillips Mfg Co

Phillips Mfg Co 3475 Touhy Ave Ch 45 Ill "Phillsolv" "Phillex" (Oil Chicago Oil and

45 Ill "Phillsolv" "Phillex" (Oil and grease)
Phillsolv—See Phillips Mfg. Co.
Plasti-Kote inc 9801 Harvard Rd N W Cleveland 5 Ohio
Polydiene—See Colonial Alloys Co

Quick Charge Inc 1750 N E Tenth St Okla-homa City 4 Okla "Quick-So" Ramco 3-Up-See Ramsey Corp.

Solvens Jean-See Cities Service Oil Co.
Solvense-See Esso Standard Oil Co.
Solve-See Service Supply Co.
Speco Inc 7308 Associate Ave Cleveland 9
Oble "Vilned"

Solvo—See Service Supply Co.
Speco Inc 7308 Associate Ave Cleveland 9
Ohio "Vinso!"
Sprex AC—See Du Bois Co
Spritzit—See M-M-A Inc
Stain-Ox Co., 625 E. First Ave., Roselle,
N. J. (Oil and grease.)
Standard Oil of Calif Western Operations
Inc 225 Bush St San Francisco 20 Calif
"Calso" "Chevron" " S O" "PDQ"
"Standard"
Stanley Co John T 642 W 20th St New York Standard Stanley Co John T 642 W 30th St New York

Standard Stanley Co John T 642 W 30th St New York 1 N Y Sure-Rite—See Warehouse Dist Co Tetradiene—See Colonial Alloys Co Troth—See Curran Corp Top-C—See Lubri-Loy Co Triad—See Detrex Corp.

Triclene—See E. I. du Pont de Nemours & Co., Electrochemicals Dept.
Tricyclodiene—See Colonial Alloys Co. Trisolvadiene—See Colonial Alloys Co. Trisolvadiene—See Colonial Alloys Co. Trisolvadiene—See Colonial Alloys Co. Trisolvadiene—See Colonial Alloys Co. Trimbler Laboratories, J. A., 423 S. Hanever St., Baltimore 1, Md.
Turco Products Ine 6125 S Central Ave Les Angeles 1 Cal Union Carbide Chemicals Co 30 E 42nd St. N Y 17 N Y "Cellosolve" U S Chemical & Supply Co 400 E 10th Ave North Kansas City 18 Mo "Z-4" Varsol—See Pageo Incandard Oil Co. Virsol—See Speco Inc Virgina-Carolina Chemical Corp 401 E Main St Richmond Va "V-C Pit" "V-C Jet" "V-C Quick" "V-C Tuf" & "V-C Zip" Warehousing Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite" White & Bagley Co 100 Foster St Worcester 8 Mass

Witch Oil—See Mitchell-Bradford Chemical

Co Wwandotte Chemicals Corp., J. B. Ford Div. Wwandotte, Mich Z-4—See US Chemical & Supply Co Zolvolene—See Fischer Industries Inc

SOUND DEADENING MATERIAL-See Insulation, Felt, Hair, Paper, Etc.; Insulation, Heat and Sound (Liquid): also Pads, Insu-lation (Heat, Cold & Sound)

SPACER TUBES-See Tubes, Spacer

SPACERS, Machinery

PACERS, Machinery
De-Sta-Co—See Detroit Stamping Co
Detroit Stamping Co 367 Midland Ave Detroit 3 Mich "De-Sta-Co" (Milling machine arbor)
Euco—See George Scherr Co
Scherr Co George 200 Lafayette St New
York 12 N Y "Euco" (Milling machine)
Simonda Saw & Steel Co 470 Main St Fitchburg Mass

Simonds Saw & Steel Cu 110 Mich Simonds Saw & Steel Cu 110 Mich Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich

SPACERS. Wheel

Lambert Inc Ansonia Ohio (Dual)

SPACING WASHERS-See Washers, Spacing

SPARK COILS-See Coils, Ignition

SPARK PLUG EQUIPMENT-See Cables (Sets); also Terminals, Wire

SPARK PLUG PARTS-See also insulators. Spark Plug

SPARK PLUGS-See Plugs, Spark

SPARKING POINTS-See Points, Contact

SPEED ALARMS (SAFETY) — See Signals, Excess Speed

SPEED CONTROLLERS-See Governors, En-

SPEED INDICATORS—See Indicators, Speed (Machinery)

SPEED REDUCERS-See Reducers, Speed

SPEED REGULATORS, ELECTRIC MOT
-See Regulators, Speed (Electric Motor) MOTOR

racing cars, etc.)

K.S.—See King-Seeley Corp.

King-Seeley Corp., K.S. Bidg., 315 S. First
St., Ann Arbor, Mich. "K.S."

Stewart-Warner Corp Instrument Div 1826

Diversey Parkway Chicago Ill (Magnetic and electric)

Waltham Processor Instrument waltham Precision Instrument Co 221 Cres-cent Co Waltham 54 Mass

SPINDLES, Drilling and Grinding Machines

Ex-Cel-O Corp 1200 Oakman Blvd Detr Mich (Grinding) Seibert & Sons Inc Chenoa III (Drilling) Corp 1200 Oakman Blyd Detroit

SPINNING KNOBS—See Knobs, Steering Wheel (Instrument Panel, Radio, Windshield Wiper, etc)

SPLINE MILLING MACHINES - See Ma-chines, Milling (Spline)

SPLINE ROLLER MACHINES—See Machines, SPOT FACING TOOLS-See Tools, Spot Fac-

SPOTLIGHTS-See Lamps, Fog. Road and

SPRAY BOOTH COMPOUNDS - See Compounds, Spray Booth

SPRAYERS, Composition

(For sound deadening on car bodies) Alemite-Versatal—See Stewart-Warner Corp Binks Mfg. Co., 3114 Carroll Ave., Chicago

12. Ill.
Black Mfg Co 403 Penn St Baltimore 30 Md
"Muff Gun"
DeVilbias Co., 200 Phillips Ave., Toledo,
Ohio.
Graco—See Gray Co.
Gray Co 54 11th Ave N E Minneapolis
13, Minn. "Graco."
Grover—See Grover Smith Mfg Corp
Lawson Co F H Evans & Whately Sts Cin-

Lawson Co F H Evans & Whately Sts Cincinnati 4 Ohio Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo

Louis 20 Mo

Muff Gun—Nee Black Mfg. Co.

Smith Mfg Corp Grover 850 E Valley Blvd
San Ghoriel Chalf "Grover" (Air operated)

Stewart-Warner Corp., Alemite Div., 1824
Diversey Parkway, Chicago 14, Ill. "Alemite-Versatal."

SPRINGS, Air (Auto, Truck, Trailer and Bus)

SPRAYERS, Molten Metal

Albertson & Co., 3100 Lowell Ave., Sloug City, Iowa. "Sioux."
Metallizing Engineering Co 1101 Prospect Ave Westbury L I N Y "Metco"
Metco—See Metallizing Engineering Co. Sioux—See Albertson & Co. Spraywelder—See Wall Colomonoy Co. Wall Colomonoy Co 19345 John R St Detroit 3 Mich "Spraywelder"

SPRAYERS, Paint, Varnish and Lacquer

(See also Machines, Painting)
Bede Products Corp Jackson St Amherst
Ohio (Airless)
Binks Mfg Co 2114 Carroll Ave Chicago 12

III
Black Arrow—See Black Mfg. Co.
Black Mfg Co 403 Penn St Baltimore 50 Md
"Milburn" "Black Arrow"
Brown Corp W R 2701 N Normandy Ave
Chicago 35 III "Marvel" "Speedy" (Also
auto power.)
Campbell-Hausfeld Co 211 Railroad Ave Harrison Ohlo "Pressure Maid" "Pressure
Princess" "Pressure Queen" "Pressure
Pal"

Cleveland Container Co Abrasive Div 3571 W 62nd St Cleveland 2 Ohio (Spray gun heads for paint cans) Decora Mfg. Co., 1516 Park Ave., Emeryville

DeVibiss Co., 200 Phillips Ave., Toledo 1, O. Dupli-Color Products Co 2440 S Michigan Ave Chicago 16 Ill (Operated from car

engine)
Enginair—See G H Meiser & Co
G M Co Mfg Inc 13-08 43rd Ave Long Island
City L I N Y

Gray Co 54 11th Ave N E Minneapolis 13 Minn "Paintmaster" Handigrip—See Plummer Spray Equipment

Handigrip—See Faulinian
Co.
Idico Products Co 1 W 125th St N Y 27 N Y
(For white wall tires)
KRW—See K R Wilson Inc
Kelite Corp 1250 N Main St Los Angeles

Kelite Corp 1250 N Main St Los Angular Calif M & E Mfg Co 2571 Winthrop Ave Indianapolls 5 Ind "M & E" "Micro-Spray" Marvel-See W. R. Brown Corp. Master Mfg Co 311 W Cabrini St Chicago 7 Ill "Master" "Trim-Ace-Rex" (Guns) Melser & Co G H P O Box 208 Blue Island Ill "Enginair" (Operated by auto or truck angine)

engine)
Micro-Spray—See M & E Mfg Co
Milburn—See Black Mfg. Co.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.

Paintmaster—See Gray Co
Pet—See Portable Electric Tools Inc
Pioneer Air Compressor Co., 120 Chambers
St., New York 7, N. Y.
Plummer Spray Equipment Co., 700 Filmore St., Napoleon, Ohio. "Handigrip,"
"Plummer."

"Plummer."
Portable Electric Tools Inc 320 W 83rd St Chicago 20 III "Pet"
Pressure Maid—See Campbell-Hausfeld Co Pressure Pal—See Campbell-Hausfeld Co Pressure Princess—See Campbell-Hausfeld Co

Pressure Queen-See Campbell-Hausfeld Co

Pressure Queen—See Campbell-Hausfeld Co Ransburg Electro-Coating Co 1234 Barth Ave Indianapolis 7 Ind (Electrostatic) Saylor-Beall Mfg. Co., St. Johns, Mich. Sharpe Mfg. Co., 1224 Wall St., Los An-geles 15, Calif. Speedy—See W. R. Brown Corp. Spraco—See Spray Engineering Co. Spray Engineering Co 100 Cambridge St Burlington Mass "Spraco" Spraylt—See Thomas Industries Inc Electric Spraylt Div

Sprayit-See Thomas Industries Inc Electric Sprayit Div Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Spray-

Trim-Ace-Rex—See Master Mfg Co Wilson Inc K R Arcade N Y "KRW"

SPRAYING BOOTHS—See Booths, Spraying (Enamel, Lacquer and Paint)

SPRING MACHINERY AND TOOLS-See naces, Spring Fitting; Machines, Coiling (Spring); Machines, Grinding (Spring, Washers, etc.); Machines, Teating (Spring); Tools, Spring Coiling; also Tools, Spring

SPRING PARTS AND ATTACHMENTS—See Bolts, Spring; Bumpers, Spring; Clips, Spring (Auto); Inserts, Spring Leaf; Links, Spring Shackle; Parts, Spring; also Shackles,

Airide—See Firestone Tire & Rubber Co Firestone Tire & Rubber Co 1200 Firestone Parkway Akron 17 Ohio "Airide" (Auto truck and trailer) General Tire & Rubber Co Air Spring Div Englewood & Holmes Ave Akron 9 Ohio Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio (Truck and bus) United States Rubber Co Rockefeller Cen-ter 1230 Ave of the Americas N Y 20 N Y

SPRINGS, Flat or Coil

Accurate Spring Mfg Co 3811 W Lake St Chicago 24 III
American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio
Automatic Spring Coiling Co 4045 W Thorndale Ave Chicago 46 III
Barnes Wallace Div Associated Spring Corp 13 Main St Bristol Conn
Burton Auto Spring Corp 2433 W 48th St Chicago 3 III
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio "Monmouth" (Knee action coil)
Dorman Products Inc 1004 Sycamore St Cincinati 2 Ohio (Brake compression door latch and pull)
Dunbar Bros Div Associated Spring Corp Bristol Conn
Moumouth—See Cleveland Graphite Bronze
Moumouth—See Cleveland Graphite Bronze

Bristol Conn Monmouth—See Cleveland Graphite Bronze

Div
Perfection Gear Co 152nd St & Vincennes
Ave Harvey III (Valve and clutch)
Ravmond Mfg Div Associated Spring Corp
226 S Center St Corry Pa
Service Spring Co Box 638 Indianapolis 6
Ind (Coll)
U S Steel Wire Spring Co 7800 Tinney Ave
Cleveland 5 Ohio

SPRINGS, Helper

Service Spring Co Box 638 Indianapolis 6 Ind "Service-Indianapolis"

'SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portens Spring Co., land 9, Ore. land 9, Ore. Co., 868 Folsom St., San Frances Betts Spil

cisco, Calif.

cisco, Calif.

Burton Auto Spring Corp., 2433 W. 48th
St., Chicago 32, ill. (For cars, trauss,
trailers and buses.)

Casco—See Cincinnati Auto Spring Co.
Champ Spring Co., 2107 Chouteau Ave., St
Louis, Mo. "Champion."

Champion—See Champ Spring Co.
Cincinnati Auto Spring Co.
Cincinnati Auto Spring Co.
Cincinnati Auto Spring Co.
To Spring Co.
To Spring Co.
To Spring Co.
To Trucks
and trailers.)

DSP—See Detroit Steel Products Div of Fenestra Inc.

estra Inc
Detroit Steel Products Div of Fenestra Inc
1500 Trombley Ave Detroit 11 Mich "DSP"
Dexier—See Laggett Spring & Axie Co
Eaton Mig. Co., Spring Div., 9771 French
Road, Detroit, Mich.
Iron City Spring Co., 2920 Smallman St.,
Pittsburgh, Pa.
Laher Spring & Tire Corp 2615 Magnolia St
Oakland 7 Calif
Liggett Spring & Axie Co Monongahela Pa estra Inc.

Caker Spring & Tire Corp State Coakland 7 Calif
Liggett Spring & Axle Co Monongahela Pa
Liggett "Liggett" (Auto truck and "Dexter" "Liggett" (Auto Truck and "Dexter" "Liggett")

trailer) Mather Spring Co P O Box 6695 Toledo 1

Industries Inc 6650 Easton Ave St Louis 14 Mo
Republic Engrg & Mfg Co 6565 Wells Ave
St Louis 14 Mo

St Louis 14 Mo
Rheem Automotive Co 601 S Placentia Ave
Fullerton Calif (Suspension)
Service Spring Co Box 638 Indianapolis 6
Ind "Service-Indianapolis"
Spring Perch Co Hamburg Turnpike (P O
Box 6) Lackawanna 18 N Y
Swartz Products Ine 1230 W School St Chicago 13 Ill
Trainor National Spring Co. Perc 201

cago 13 Ill
Trainor National Spring Co., Box 391, New
Castle, Ind.
Triangle Auto Spring Corp., Maloney Rd. &
B & O. R. R., Dubois, Pa.
Tuthill Spring Co 760 W Polk St Chicago 7 Ill
Vail Spring Works Inc P O Box 4008 Broad
Creek Sta Norfolk Va
Vulcan Spring Co 760 W Polk St Chicago Ill

SPRINGS, Seat or Upholstery

Barber Mfg. Co., 1824 Brown St., Anderson,

Ind.
Bostrom Mfg. Co., 135 W. Oregon St., Milwaukee 4. Wis.
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 23, Pa.
Goshen Cushion & Body Co., N. Second St., Goshen, Ind.
Milsco Mfg Co 2758 N 33rd St Milwaukee 10 Wis "No-Sag"
No-Sag—See Milsco Mfg Co
Royco—See Royersford Spring Co.
Royersford Spring Co. First Ave. & Main

NO-SAR—See MISCO MIR CO Royco-See Royersford Spring Co Royersford Spring Co., First Ave. & Main St., Royersford, Pa., "Royco," "Royco Lace Web." (For trucks and buses.) Sagless Auto Seat Co., 2501 S. State St.,

Stubnitz-Greene Corp 404 Logan St Adrian Mich (Seat) Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

SPRINGS. Special

Service Spring Co Box 638 Indianapolis 6 Ind "Service-Indianapolis" (Coil)

SPRINGS, STARTING MOTOR DRIVE-See Parts, Starting Motor Drive

SPRINGS, Torsion Bar

Mather Spring Co P O Box 6695 Toledo 1 Ohio (For autos buses trucks and trailers and off-the-road equipment)

SPROCKET WHEELS, POWER TRANSMIS-SION—See Chains and Sprockets, Power Transmission

SPROCKETS. Machined (For sprocket blanks—See Castings;

Chain Belt Co 4782 W Greenfield Ave Mil-waukee 1 Wis "Rex"

Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill. Cullman Wheel Co., 1244 Altgeld St., Chi-

cago 14, Ill. arrell-Cheek eek Steel Co., Ft. First St., San-

dusky, Ohio. Link-Beit Co Prudential Plaza Chicago 1 Ill Rex—See Chain Beit Co Whitney Chain Co 237 Hamilton St Hartford

Wolverine Gear & Parts Co Osseo Mich

STACKING MACHINES—See Elevators, In-dustrial (Portable) STAKE BODY PARTS - See Parts Stake Body (Steel)

STAMPINGS. Metal

A K Tool Co Route 22 Mountainside N J Accurate Spring Mfg Co 3811 W Lake St Chicago 24 Ill
Ackerman Mfg Co 1134 Market St Wheeling W Va "Ackerman-Wheeling"
Ackerman-Wheeling"
Ackerman-Wheeling Both Ackerman Mfg Co Acklin Stamping Div of Tecumseh Products Co 1925 Nebraska Ave Toledo 7 Ohio Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Active Tool & Mfg Co 888 Clairpointe St Detroit 15 Mich
Adam & Westlake Co 1019 N Michigan St Elkart Ind "Adlake"
Adams Co S G 920 Olive St St Louis 1 Mo Adlake—See Adam & Westlake Co
Actna Industries 24331 Sherwood St Center Line Mich
Ainsworth-Precision Castings Co Div of Harsco Corp 3209 Guardian Bldg Detroit 26 Mich
Akron-Sella Co High & Chestnut Sts Akron

26 Mich Akron-Selle Co High & Chestnut Sts Akron 11 Ohio "Tasco" Allied Products Corp Richard Bros Die & Prototype Div 1566 E Milwaukee Ave De-

Allied Products Corp Richard Bros Die & Prototype Div 1566 E Milwaukee Ave De-troit 11 Mich Alofs Mfg Co 345 32nd St S W Grand Rapids 8 Mich Alox Mfg Co 6160 Maple Ave St Louis 14 Mo

Alox Mfg Co 6160 Maple Ave St Louis 14 Mo Aluminum Co of America 1501 Alcoa Bidg Pittsburgh 19 Pa American Brass Co Fabricated Brass Goods Div 26 Crane St Waterbury 20 Conn American Coil Spring Co Keating Ave at Huizenga St Muskegon Mich American Forging & Socket Co P O Box 120 Fontiac Mich American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa American Spring & Wire Specialty Co 816 N Spaulding Ave Chicago 51 III American Stamping Co 310 E Burnham St Battle Creek Mich American Stamping Co 26650 Lakeland Blvd

Battle Creek Mich
American Stamping Co 26650 Lakeland Blvd
Cleveland 32 Ohio
Amesbury Metal Products Co 39 Oakland St
Amesbury Mass
Anderson Co O. L 1347 E Fort St Detroit 7
Mich
Ansted Corp 1428 W Henry St Indianapolis
7 Ind
Anzick Mfg Co 23675 Mound Rd Van Dyke
Mich

Mich Apco Mossberg Co Lamb St Attleboro Mass Applied Arts Corp 365 Lane Ave S W Grand Rapids 4 Mich Arvin Industries Inc 13th St & Big Four RR Columbus Ind

Columbus Ind
Asco—See Automotive Stamping & Mfg Co
Ashtabula Bow Socket Co 4212 Ann Ave
Ashtabula Ohio
Auld Co D L Fifth Ave & Fifth St Columbus
Ohio

Ohio
Auto City Sheet Metal Co 4211 Nancy Ave
Detroit 12 Mich
Automotive Stamping & Mfg Co 15391 Idaho
Ave Detroit 38 Mich "Asco"
Banner Die Tool & Stamping Co 1308 Holly
Ave Columbus 8 Ohio
Barcy-Nicholson Co 8100 Joy Rd Detroit 4
Mich
Barnes Die Wellson

Mich Barnes Div Wallace Associated Spring Corp 18 Main St Bristol Corn Bath Co Cyril 32280 Aurora Rd Solon Ohlo Bay State Stamping Co 372 Chandler St Worcester Mass

iteel Tank Mfg Co 700 S 7th St Nebr Beatrice Ste

Beatrice Steel Tank Mfg Co 700 S 7th St Beatrice Nebr Beck Products Corp 12255 E Eight Mile Rd Detroit 5 Mich Bellevue Mfg Co Ashford Ave Bellevue Ohio Bermo Industries Inc 216 W 86th St Min-neapolis Minn Bingham Stamping Div Bingham-Herbrand Corp 1062 Post St Toledo 6 Ohio Bossert — See Rockwell - Standard Corp Stamping Div Bowen Products Corp Auburn N Y Brandt Inc Charles T 1700 Ridgely St Balti-more 30 Md

Brewer-Titchener Corp 115 Pt Watson St Cortland N Y Burgess-Norton Mfg Co 731 Peyton St

Geneva III

Geneva III
Chicago Forging & Mfg Co 2000 Southport
Ave Chicago 14 III
Chicago Tool & Kit Mfg Co 230 N Jefferson
St Chicago 6 III
Cinch Mfg Corp 1026 S Homan St Chicago 24

City Auto Stamping Co Div of Globe-Wer-nicke Industries Inc Lint & Dura Aves To-ledo 12 Qhio

ledo 15 vano Cleveland Steel Products Corp 16025 Brook-park Rd Cleveland 35 Ohlo Cleveland Wire Spring Co Div Stubnitz Greene Spring Corp 300 E Main St DeSoto Mo

Mo oatesville Plate Washer Co 1642 Widener Bldg Philadelphia 7 Pa ommercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohlo ook Metal Works Inc 237 S Campbell Ave

Logan All Cook Metal Works Inc 2016

Mishawaka Ind
Crosby Co 183 Pratt St Buffalo 5 N Y
Culver-Stearns Mfg Co 181 Greenwood St
Worcester 7 Mass
Cutter Metal Products Co 1025 Line St Camden N J
Gen N J
Gen Spring Co 10252 Berea Rd Cleve-

nanu z Unio Dahlstrom Metallic Door Co Special Prod-ucts Div 429 Buffalo St Jamestown N Y Dail Steel Products Co Main & Hosmer Sts Lansing Mich

Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Parish"

"Parish"
De-Sta-Co-See Detroit Stamping Co
Detroit Stamping Co Midland Ave Detroit
3 Mich "De-Sta-Co"
Detroit Stamping Co Midland Ave Detroit
3 Mich "De-Sta-Co"
Detroit Universal Div Chrysler Corp 6455
Kingsley Ave Dearborn Mich
Diamond G-See George K Garrett Co
Dieterich Products Corp U S 12 & Liberty
Trail Michigan City Ind
Dill Mfg Co 706 E \$2nd St Cleveland 3 Ohio
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Dunbar Bros Div Associated Spring Corp
Bristol Conn (Small)
Eaton Mfg Co Spring Div 9771 French Rd
Detroit 31 Mich
Eaton Mfg Co Stamping Div 17877 St Clair

Detroit 31 Mich Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio Engineered Products Co 129 Smith St Flint 4 Mich Estan Mfg Co 1605 Bonner St Ferndale 20

Mich wans Products Co 13101 Eckles Rd Ply-Evans

mouth Mich
Fahco Inc 1260 W Jefferson Ave Trenton
Mich
Falls Stamping & Welding Co 1701 Front St
Cuyahoga Falls Ohio
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill
Firestone Steel Products Co 1600 Firestone
Parkway Akron 1 Ohio
Fitzsimons Mfg Co 3775 E Outer Drive Detroit 34 Mich
Forsyth Metal Goods Co Elm St East Aurora
N Y
Fort Pitt Mfg Co 1501 Preble Ave N S Pittsmouth Mich abco Inc 1260 W Jefferson Ave Trenton

N Y Fort Pitt Mfg Co 1501 Preble Ave N S Pitts-burgh 33 Pa burgh 33 Pa
Foxcraft Products Co PO Box 128 Huntington Valley Pa
Freeway Washer & Stamping Co PO Box
1756 Cleveland 5 Ohlo
GGG Metal Stamping Co Box 114 Warren Pa
Garland Mfg Co 10533 Gratiot Ave Detroit

13 Mich

Garrett Co George K Torresdale Ave at Tol-but St Philadelphia 36 Pa "Diamond G" Gasket Packing & Specialty Co 41 N Saxon Ave Bay Shore L I N Y General Pressed Metal Corp 926 Wolf St Syracuse 8 N Y

Syracuse 8 N Y
General Tire & Rubber Co Industrial Products Div Wabash Ind
Geometric Stamping Co 1111 E 200th St
Cleveland 17 Ohto
Gerstenslager Co Wooster Ohio
Geuder Passchke & Frey Co 324 N 15th St
Milwaukee 3 Wis
Griffith Hope Co 8567 W Mitchell St West

Milwaukee 3 Wis Griffith-Hope Co 6607 W Mitchell St West Allis 14 Wis Guarantee Specialty Mfg Co E 96th St & N Y C RR Cleveland 8 Ohio H & P Die & Stamping Co 13945 Triskett Rd Cleveland 11 Ohio

Hall Lamp Co C M 1085 E Hancock Ave De-troit Mich Hardy Mfg Corp W Pearl St Union City Ind

Hardy Mrg Corp W Fearl St Union City Ind Haviland Co Arnold 1008 S Jackson St De-fiance Ohio Heintz Div Kelsey-Hayes Co Front St & Olney Ave Philadelphia 20 Pa Hill Nut Co 2620 W Flournoy St Chicago 12 III.

Houdaille Industries Inc Detroit Div 2660 E Grand Blvd Detroit 11 Mich

Hubbard Spring Mfg Co MD 646 Central Ave Pontiac Mich Hurd Lock & Mfg Co 219 N Main St Al-mont Mich

mont Mich Imperial Electrical Co N Plum St Union City Ind Ingersoll Products Div Borg-Warner Corp 1000 W 120th St Chicago 43 Ill Ingersoll Steel Div Borg-Warner Corp PO Box 273 New Castle Ind

Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa Kickhaefer Mfg Co 903 S Second St Milwau-

Kickhaefer Mfg Co 903 S Second St Milwau-kee 4 Wis Kongislow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Oblo

Laminated Shim Co 62 Union St Clenbrook Conn Lansing Stamping Co 1159 S Pens Ave Lans-

Lansing Stamping Co 1159 S Pens Ave Lansing 2 Mich Larson Tool & Stamping Co Olive St Attle-boro Mass Lees Div of Serrick Corp John 1300 Batavia St Muncie Ind Lewis Spring & Mfg Co 2652 W North Ave Chicago 47 Ill Lidseen Inc Gustave Hayesville N C Logan Co Cabel St Louisville 16 Ky

M-P-See Master Products Co McCord Corp Riopelle at E Grand Blvd De-troit 11 Mich McDowell Manufacturing Co 301 Stanton

Ave Pittsburgh 9 Pa McLaughlin Body Co 2430 Third Ave Moline

McLaughlin Body Co 2439 Third Ave Moline III
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio "M-P"
May-Fran Engineering Inc 1710 Clarkstone Rd Cleveland 12 Ohio
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mercury Aircraft Inc Hammondsport N Y
Metalcraft Mfg Co 1202 E 23rd St Indianapolis 5 Ind
Metal Specialty Co Este Ave & B & O RR Cincinnati 32 Ohio
Michigan Plating & Stamping Co 740 Ann St N W Grand Rapids Mich
Midland-Ross Corp Detroit Div 6660 Mt Elliott Ave Detroit II Mich
Midwest Bedy & Mfg Div Electrographic Corp S Central St Paris III
Milwaukee Stamping Co 300 S 72nd St Milwaukee 14 Wis
Milwaukee Wire Products Inc 2033 W St Paul Ave Milwaukee 3 Wis
Mirro Aluminum Co Manitowoc Wis
Mitchell Metal Products Inc 6561 Cedar Ave Cleveland 3 Ohio
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmore Sts Philadelphia 36 Pa
Mocar Products Co PO Box 6037 Dearborn

Inc Edmund & Shelling 36 Pa 36 Pa ocar Products Co PO Box 6037 Dearborn

Mich
Monroe Auto Equipment Co 1426 E First St
Monroe Mich
Morris Co George W 427 Lake St Racine Wis
Morrison Steel Products Inc 601 Amherst St
Buffalo 7 N Y
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich
Motors Metal Div Abrasive & Metal Products Co 5936 Milford Ave Detroit 10 Mich

oera Mfg Co Div of Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn Olin Mathieson Chemical Corp Western Brass Mills Div East Alton III "Western" Onelda Products Div Henney Motor Co Canastota N Y Orrville Body Co Orrville Ohio

Orrville Body Co Orrville Ohio
Paramount Fabricating Co 1644 W Lafayette
St Detroit 16 Mich
Parish—See Dana Corp
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa
Parkview Metal Products Inc 4931 W Armitage Ave Chicago III
Parsons Co 15000 Oakland Ave Detroit 3

Mich

Mich Mich MacGuyer Co Baker St & Virginia Ave Providence 5 R I Peerless Novelty Co First & Fulton Sts Grand Haven Mich Peninsular Metal Products Corp 1365 Jarvis St Detroit 20 Mich Philadelphia Gasket & Mfg Co F & Atlantic Sts Philadelphia 34 Pa Plume & Atwood Mfg Co Main St Thomaston Conn

Plume & Atwood Mfg Co Main St Thomaston Conn
Powell Pressed Steel Co Erie St Hubbard Ohio
Press Work Inc Lead Alloy Products Div
9100 Roselawn Ave Detroit 4 Mich
Pressed Steel Co 705 N Pennsylvania Ave
Wilkes-Barre Pa
Presteel—See Worcester Pressed Steel Co
Production Die & Stamping Co 1834 Garfield
Ave Detroit 7 Mich
Purolator Products Inc Wayne Div Wayne
Mich

Randall Co 5000 Spring Grove Ave Cincinnati

Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich Republic Steel Corp Pressed Steel Div 6100 Trusco Ave Cleveland 27 Ohio Rex Metal Parts Co 1295 W 78th St Cleve-land 2 Ohio

land 2 Ohlo Rockford Metal Products Inc 716 Cedar St Rockford Ill

Rockwell-Standard Corp Spring Div 301 East

Rockwell-Standard Corp Spring Div 301 East St Chelsea Mich Rockwell-Standard Corp Stamping Div 1002 Oswego St Utica 1 N Y "Bossert" Ryerson & Haynes Inc 2307 E Ganson St Jackson Mich

Ryerson & Haynes Inc 2307 E Ganson St Jackson Mich Scovill Mfg Co 99 Mill St Waterbury 20 Conn Service Products Corn 201 S Rural St Indianapolis 1 Ind Sheet Metal Specialty Div of Follansbee Steel Corp State St Follansbee W Va Sherman Mfg Co H B 22 Barney St Battle Creek Mich Smith Corp A O 27th & Hopkins Sts Milwaukee 1 Wis Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill Spring Perch Co Hambury Turnpike Lackawanna 18 N Y Standard Brass Corp 915 W Perry St Belvidere Ill Stanley Works Pressed Metal Div 195 Lake St New Britain Conn Stant Mfg Co 1620 Columbia St Connersville Ind

Ind
Sterling Stamping Co 21680 W 8 Mile Rd Detroit 19 Mich
Stimpson Co Edwin B 70 Franklin Ave
Brooklyn 5 N Y
Stolitzka & Son Frank J 237 N Adams St
Akron Ohio
Stolper Steel Products Corp 300 Pilgrim Rd
Menomonee Falls Wis
Superior Metal Products Inc Branson & 18th
Sts Marion Ind
Superior Wrought Washer Co 1951 W 90th
St Cleveland 2 Ohio

Whitehead Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich Wisconsin Gasket & Mfg Co 8724 N Gran-ville Rd Granville Wis Worcester Pressed Steel Co 100 Barber Ave Worcester 6 Mass "Fresteel" Worcester Stamped Metal Co 9 Hunt St Wor-cester 4 Mass

cester 4 Mass
Wrought Washer Mfg Co 2107 S Bay St Mil-waukee 7 Wis
York Corrugating Co Adams St & W Md RR
York Pa
Young Spring & Wire Corp 9200 Russell St
Detroit 11 Mich
Youngstyng Kitchens Die

Detroit 11 Mich Youngstown Kitchens-Div of American-Standard 605 S Ellsworth St Salem Ohio Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

STAMPINGS, Plastic

Franklin Fibre Lamitex Corp 18th St E of Market St Wilmington Del

STAMPS, Steel

Acromark Co 9-13 Merrell St Elizabeth 4 N J "Acromark," "Acrostamp" Acrostamp—See Acromark Co Adams Co S G 920 Olive St St Louis 1 Mo Boker & Co 101 Duane St New York 7 N. V Colonial Broach & Machine Co P O Box 27 Harper Sta Detroit 13 Mich

FOR ALL VEHICLES, HELPER SPRINGS SPECIAL SPRINGS. COIL SPRINGS

SERVICE SPRING CO.

Box 638, Indianapolis, Indiana

Circle 255 on Inquiry Card for more data

THE MATHER

TOLEDO, OHIO



Circle 256 on Inquiry Card for more data

Tasco—See Akron-Selle Co
Taylor Products Div Tecumseh Products Co
1100 W Beardsley Ave Elkhart Ind
Timms Spring Co Taylor & Boston Sts
Elyria Ohio
Toledo Pressed Steel Co 397 Phillips Ave
Toledo 12 Ohio
Toledo Stamping & Mfg Co 99 Fearing Blvd
Toledo Ohio
Transue & Williams Steel Forging Corp 562
Ely St Alliance Ohio
Tubing Seal Cap Inc 808 W Santa Anita St
San Gabriel Calif
United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass
United Metal Craft Co 800 Lowell St Ypsi-

United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass
United Metal Craft Co 800 Lowell St Ypsilanti Mich
United Screw & Bolt Corp 3590 W 58th St
Cleveland Ohio
United Shoe Machinery Corp 140 Federal St
Boston 7 Mass
Unived Specialties Co of Illinois 9705 Cottage Grove Ave Chicago 2 Ill
U S Tool & Mfg Co 1832 N Sheffield Ave
Chicago Ill
Victor Mfg & Gasket Co 5750 W Roosevelt

Chicago Ill
Victor Mfg & Gasket Co 5750 W Roosevelt
Rd Chicago 50 Ill
Wabash Metal Products Co Hydraulics Div
1569 Morris St Wabash Ind
Wagner Mfg Co E R 4611 N 32nd St Milwaukee 16 Wis
Waterbury Pressed Metal Co 300 Chase Ave
Waterbury Conn
Waynco—See Wayne Foundry & Stamping
Co

Waynco

Wayne Foundry & Stamping Co 3100 Hubbard Ave Detroit 10 Mich "Waynco"
Wesbar Stamping Corp West Bend Wis
Western—See Olin Mathieson Chemical Corp

Western Metal Specialty Div Western In-dustries Inc 1213 N 62nd St Milwaukee 13 Wis Westmoreland Metal Mfg Corp 152 E 15th St Lindenhurst N Y Wheeling Steel Corp Wheeling Steel Bldg Wheeling W Va

STAMPINGS

SINCE 1908 PRESSES TO 180 TONS TOOLS AND DIES



WRITE FOR THIS CATALOG OF STANDARD PARTS CLIPS, CLAMPS, CORE HOLE AND EXPANSION PLUGS, RETAINERS, COVERS, VINYL COATING

KICKHAEFER MFG. CO.

903 SO. SECOND ST. MILWAUKEE 4, WISCONSIN

Circle 257 on Inquiry Card for more data

STAMPS. Steel-continued

Cunningham Co M E 1025 Ch Pittsburgh 33 Pa "Wedge Grip

Dixon Inc William 32-42 Kinney St Newark 1 N J

Duo-Life-See Jas H Matthews & Co

Duo-Life—See Jas H Matthews & Co Greenfield Steel Stamp Works 2 Mead St Greenfield Mass Hanson Co C H 303 W Erie St Chicago III Hi-Duty—See Geo T Schmidt Inc Hoggson & Petris Mfg Co 141 Brewery St New Haven 7 Conf Standard William Co 141 Brewery St Seneca Falls N T & Stationery Co 1500 S

Deneca Falls N Y Los Angeles Stamp & Stationery Co 1500 S Los Angeles St Los Angeles 15 Calif "Mar-King"

King"

Lo-Stress—See Jas H Matthews & Co

Mar-King—See Los Angeles Stamp & Stationery Co

Matthews & Co Jas H 3942 Forbes St Pittsburgh 13 Pa "Safe-Hed" "Duo-Life" "LoStress"

Mecco Safety—See M E Cunningham Co

Merkert & Sons 91-26 143rd St Jamaica 35

N Y
Newco-See New Method Steel Stamps, Inc.
New Method Steel Stamps, Inc., 149 Jos.
Campau Ave., Detroit 7, Mich. "Newco."
Numberall Stamp & Tool Co Huguenot
Park S 112 N Y
Panner Corp 207 Sandusky St Pittsburgh

12 Pa
Safe-Hed—See Jas H Matthews & Co
Schmidt Inc Geo T 4100 Ravenswood Ave
Chicago 13 Ill "Hi-Duty"
Superior Steel & Stamp Co 1401 Vermont
Ave Detroit 15 Mich
Superior Steel Stamp Co 113 E St Clair Ave
Cleveland 14 Ohio
Wedge Grip—See M E Cunningham Co

STANDS, AUTOMOBILE DISPLAY - See Turntables, Automobile

STANDS, DIESEL ENGINE TESTING-See Testers, Diesel Engine

STANDS, Electric Test

(For testing starting and lighting equipment; see also Analyzers, Engine and Electrical Equipment)

and Electrical Equipment)
Allen Electric & Equipment Co., 2101 N.
Pitcher St., Kalamazoo 13F, Mich. (Generator and regulator.)
Crumbliss Mfg Co 2830 N Podlin Dr Franklin Park III (Regulator)
Electro Products Co., 445 E. 189th St., New York 58. N. Y.
Hanson Co Harvey E Lake Blvd & Commercial St. Paw Paw Mich
Heyer Industries Inc 471 Cortlandt St Belleville 9 N J

Heyer Industries Inc 471 Cortlandt St Belleville 9 NJ
ville 9 NJ
ville 9 NJ
king Electric Equipment Co 9123 Inman
Ave Cleveland 5 Ohio (Generator and
regulator)
Mercury Electric Co 719 Wyandotte St Kansas City 6 Mo (Generator)
Nankervis Co George L 15300 Fullerton
St Detroit 27 Mich
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill (Regulator test)
Shurnit Products Inc 845 S Market St Waukegan Ill
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Weidenhoff Corp Algona Iowa

STANDS, Engine Fuel Flow Test (Automotive)

Fischer & Porter Co 700 Warminster Rd Hatboro Pa

STANDS, for Portable Electric Drills and Grinders

ASI—See Angle Steel Inc Albertson & Co \$100 Lowell Ave Sloux City Angle Steel Inc 56 Oak St Plainwell Mich "ASI"

Angle Steel Inc 56 Oak St Plainwell 2013 "ASI"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Blue Point—See Snap-On Tools Corp
Buck Mfg Co 1355 N Tenth St San Jose Calif
"Bux" (Magnetic for drills)
Bux—See Buck Mfg Co
Campbell Co., H. D., 216 N. Sixth St., Rochelle, Ill. "Handy Andy."
Cummins Portable Tools Div of John Oster
Mfg Co 5055 N Lydell Ave Milwaukee 17
Wis (Drills)
De Luxe Metal Furniture Co Struthers St
Warren Pa
Franklin Co Bernard Hedley & Bath Sts
Philadelphia 37 Pa Franklin Co Bernard Hedley & Ba Philadelphia 37 Pa Handy Andy—See H D Campbell Co

Huot Mfg Co 550 N Wheeler St St Paul Minn Huot Mfg Co DBE N WHOCK TO THE CO. TO THE CO. TO CONGRESS AT First Ave S E Aberdeen S D (Drills)
Millers Falls Co Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St
Milwaukee N Wis

Milwaukee 8 Wis

Milwankee & Wis
Porta-Cab—See Huot Mfg Co
Service Caster & Truck Corp Albion Mich
Sherman-Klove Co \$525 W 47th St Chicago III "S-K"
Sioux—See Albertson & Co
Skii Corp 5053 Eiston Ave Chicago 20 III
Snap-On Tools Corp 8046 28th Ave KenoshWis "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd
Grange Park III "Thor SpeedDrills"
Stanley Electric Tools Div of Stanley Works
480 Myrtle St New Britain Conn (Drills)
Thor SpeedDrills—See Speedway Mfg Co
United States Electrical Tool Co
Liewelyn St Cincinnati 23 Obio

River Rd Schenectady & N Y "G-E"
Guyan Machinery Co P O Box 150 Loga
W Va
Linestart—See Westinghouse Electric Corp
Square D Co 6060 Rivard St Detroit 11 Mic
3C—See Clark Controller Co
Westinghouse Electric Corp 2 Gateway Cen
ter Pittaburgh 30 Pa "Linestart"

STARTING MOTOR DRIVE PARTS—See
Drives, Startier; also Parts, Parts, Startin
Motor Drive

STARTING MOTOR HOUSINGS—See Hous
ings, Starting Motor

TARTING MOTOR—See Motors, Starting
STARTING MOTORS—See Motors, Starting
STARTING MOTOR HOUSINGS—See Hous
ings, Starting Motor

TARTING MOTOR—See Motors, Starting
STARTING MOTOR—See Motors
STARTING MOTOR—See M

STANDS, Portable (Tool and Parts)

ASI—See Angle Steel Inc Albertson & Co 3100 Lowell Ave Sioux City STEEL or IRON, Angle, Channel and 3 lowa 'Sloux' Tee gle Steel Inc 55 Oak St Plainwell Mich

Barrett-Cravens Co 630 Dundee Rd Northbrook Ill

Bay Products Inc 1835 W Cambria St Phila-Bay Froducts Inc 1835 W Cambria St Phila-delphia 32 Pa
Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa
Bernard Gloeker North East Co Robinson & Wall Sts North East Pa Coison Corp Elyria Ohio Cutler Metal Products Co 1025 Line St Cam-den N J Economy Engrg Co 4511 W Lake St Chicago 24 III

24 111

24 III
Equipto Div Aurora Equipment Co Prairie
St at Cleveland Ave Aurora III
FGM—Ser Frick-Gallagher Mfg Co
Frick-Gallagher Mfg Co 200 W Second St
Wellston Ohio "FGM"
Gross Mfg Co 1711 California St Monrovia

Calif

Calif Hallowell—See Standard Pressed Steel Co Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome" Herco—See Karl A Herman Co Herman Co Karl A 412 Fuller Ave N E Grand Rapids Mich "Herco" Huot Mfr Co 550 N Wheeler Ave St Paul Minn "Porta-Cab" Kennedy Mfg Co N Harrison St Van Wert Ohio

Kennedy Mfg Co N Harrison St Van Wert Ohlo
Lincoln Engineering Co 4010 Goodfellow Blvd
St Louis 30 Mo
Lyon Metal Products, Inc., 2931 Montgomery
St., Aurora, Ill
Nat-Flex—See Shure Mfg Corn
Nutting Truck & Caster Co 1201 W Division
St Faribault Minn
OTC—See Owatonna Tool Co
Overbeke-Kain Co 20905 Aurora Ave Bedford
Ohlo "Roll-A-Bench"
Owatonna Tool Co 242 N Cedar St Owatonna
Minn "OTC"
Porta-Cab—See Huot Mfg Co
Roll-A-Bench—See Overbeke-Kain Co
Scotty—See Shure Mfg Corp
Sheet Metal Specialty Div of Foliansbee
Steel Corp State St Foliansbee W Va
Shure Mfg Corp 1601 S Hanley Rd St Louis
17 Mo "Nat-Flex" "Scotty" "Shure-Bilt"
Sloux—See Albertson & Co
Standard Pressed Steel Co P O Box 397
Jenkintown Pa "Hallowell"
Sturdi-Bilt Steel Products Inc 2501 Peterson
Ave Chicago 45 Ill
Van Chrome—See Herbrand Div Bingham—
Herbrand Corp
Wilson Inc K R Arcade N

Van Chrome—See Herusand Herbrand Corp Wilson Inc K R Arcade N T TANDS, WELDING-See Positioners, Weld-

STARTER EQUIPMENT—See Brushes; Cable; Drives, Starter (Auto); Gears, Flywheel Ring; Keys; Motors, Starting; Switches, Starter; Parts, Starting Motor Drive

(See also Linestarters, for A. C. Motors)

Allen-Bradley Co 136 W Greenfield Avc Mil-waukee 4 Wis Arrow-Hart & Hegeman Electric Co 10 Hawthorne St Hartford 6 Conn

Hawthorns St Bartton 5 Conn C-H—See Cutler-Hammer Inc Clark Controller Co 1146 E 152nd St Cleve-land 10 Ohlo "3C" Cutler-Hammer Inc 362 N 12th St Milwau-kee 1 Wis "C-H"

C & M—See Electric Controller & Mfg Co dectric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M"

& M" G-E-See General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Guyan Machinery Co P O Box 150 Logan

W Va Linestart—See Westinghouse Electric Corp Square D Co 6060 Rivard St Detroit 11 Mich 3C—See Clark Controller Co Westinghouse Electric Corp 3 Gateway Cen-ter Pittaburgh 30 Pa "Linestart"

G MOTOR DRIVE PARTS—See Starter; also Parts, Parts, Starting

STARTING MOTOR HOUSINGS—See Housings, Starting Motor

STEEL FILERS—See Filers, Steel (For Templates, Patterns, etc.)

STEEL, ALLOY-See Steel, Chrome; Steel, Chrome Nickel; Steel, Nickel; Steel, Manganese; also Steel, Vanadium

Atlantic Steel Co 16th & Mecasiin Sts Atlanta 1 Ga (Steel)

Hynes Steel Products Co 3760 Oakwood Ave
Youngstown Ohio (Angle steel)

Inland Steel Co 30 W Monroe St Chicago 3

Ill
Jones & Laughlin Steel Corp 3 Gateway
Center Pittsburgh 30 Pa (Steel)
Republic Steel Corp Republic Bidg Cleveland 1 Ohio
United States Steel Corp 525 Wm Penn Pl
Pittsburgh 30 Pa

STEEL or IRON, Bar

Atlantic Steel Co 16th & Mecasiin Sts At-lanta 1 Ga (Steel) Bethlehem Steel Co Bethlehem Pa Boker & Co H 101 Duane St New York 7 N Y (Tool steel)

Cruciol steel Co 5501 W Grand Ave Chicago 39 III
Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa
Great Lakes Steel Corp Ecorse Detroit 29

Inland Steel Co 38 S Dearborn St Chicago Center Pittsburgh 30 Pa (Steel)
Kaiser Steel Corp 1924 Broadway Oakland 12

Calif
Republic Steel Corp Republic Bldg Cleveland
1 Ohlo (Stainless)
Tennessee Coal Iron Div U S Steel Corp
P O Box 599 Fairfield Ala (Steel)
United States Steel Corp 525 Wm Penn Pl
Pittsburgh 30 Pa (Steel)
Youngstown Sheet & Tube Co P O Box
900 Youngstown 1 Ohio (Hot rolled)

STEEL, Chrome

Bethlehem Steel Co Bethlehem Pa Republic Steel Corp Republic Bldg Cleve-Republic Steel Corp Republic Bldg Cleve-iand Ohio Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio

STEEL, Chrome Nickel

Allegheny Ludium Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa Bethlehem Steel Co Bethlehem Pa McInnes Steel Co 441 E Main St Corry Pa Republic Steel Corp Republic Bldg Cleve-land Ohlo Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohlo United States Steel Corp 525 Wm Penn Place Pittsburgh 30 Pa

STEEL, Clad Metal

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa Ingersoil Steel Div Borg-Warner Corp P O Box 273 New Castle Ind (Sheet) Superior Steel Div of Copperweld Steel Co Carnegle Pa (Strip)

STEEL, Cold Finished Bar

American Steel & Wire Div U S Steel Corp Rockefeller Bldg Cleveland Ohio Bliss & Laughlin Inc 281 E 155th St Harvey III

Ill
Crucible Steel Co of America 535 Smithfield
St Pittsburgh Pa
Jones & Laughlin Steel Corp 3 Gateway
Center Pittsburgh 30 Pa

Jones & Laughlin Steel Corp Strip Steel Div Youngstown 1 Ohio La Salle Steel Co 1410 150th St Hammond La b. Ind

Porter Co H K Vulcan-Kidd Steel Div Ali-

quippa Pa el Corp 1441 Republic Bldg Cleveland 1 Ohio Ryerson & Son Inc Joseph T 16th & Rock-well Sts Chicago III

well Sts Chicago Ill
Superior Drawn Steel Co Monaca Pa
Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohlo
Union Drawn Steel Div Republic Steel Corp
401 Rose Ave S E Massillon Ohlo (Carbon alloy and stainless)
Youngstown 10 bet & Tube Co P O Box 900
Youngstown 10 bet & Tube Co P O Box 900 Youngstown Sheet & Youngstown 1 Ohio

STEEL, Cold Rolled and Drawn Bar

Bethlehem Steel Co Bethlehem Pa
Bliss & Laughlin Inc 281 E 155th St Harvey
Ill (Cold drawn bar)
Copperweid Steel Co Steel Div Mahoning
Ave Ext Warren Ohio (Carbon and alloy)
Eaton Mg Co Reliance Div 25 Charles Ave
S E Massillon Ohio
Fitzsimons Steel Co 1623 Wilson Ave
Youngstown 1 Ohio (Cold drawn bar)
Hamden Steel & Aluminum Co State & Edmund Sts New Haven Conn (Cold rolled)
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa

Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Rotary Electric Steel Co Box 4606 Detroit 34
Mich (Carbon cold drawn)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago III
Universal-Cyclops Steel Corp Station St
Bridgeville Pa
Western Automatic Machine Screw Co

Vestern Automatic Machine 377 Woodland Ave Elyria Ohio Screw Co

STEEL, Cold Rolled Strip

Acme Steel Co 135th St & Perry Ave Chicago 27 Ill
Alan Wood Steel Co Conshohocken Pa
American Steel and Wire Div United States
Steel Corp Rokefeller Bldg Cleveland 18
Ohio
Armeo Steel Corp 732 Counts St 24444

Armco Steel Corp 703 Curtis St Middle-town Ohio

Barnes Steel Div Wallace Associated Spring

Corp Bristol Conn
Bethlehem Steel Co Bethlehem Pa
Blair Strip Steel Co 1209 Butler Ave New
Castle Pa
Caine Steel Co 5501 W Grand Ave Chicage 39 III Cold Metal Products Co 1200 City Bank Bldg

Youngstown 1 Ohio Detroit Steel Corp P O Box 4308 Detroit 9

Detroit Steel Corp Tecumseh Rd Ecorse
Mich
Great Lakes Steel Corp Tecumseh Rd Ecorse
Detroit 29 Mich
Hynes Steel Products Co 3760 Oakwood Ave
Youngatown, Ohlo,
Inland Steel Co 30 W Monroe St Chicago Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa. Kaiser Steel Corp 1924 Broadway Oakland 12

Kaiser Steel Corp 1924 Broadway Oakland 12 Calif
Philadelphia Steel & Wire Corp Fenn St & Belfield Ave Philadelphia 44 Pa.
Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa
Precision—See Cold Metal Products Co
Republic Steel Corp Republic Bldg Cleveland
1 Ohio (Also stainless)
Sharon Steel Corp Sharon Pa
Stanley Works (Pressed Metal Div), 195
Lake St New Britain Conn
Thomas Strip Iviv Pittsburgh Steel Co Delaware Ave Warren Ohio (Electrolytically coated also uncoated)
Universal-Cyclops Steel Corp Station St
Bridgeville Pa
Weirton Steel Co Div of National Steel Corp
Weirton W Ya
Youngstown Sheet & Tube Co P O Box 900

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohlo

STEEL, For Cold Extrusion

Copperweld Steel Co Aristoloy S Mahoning Ave Ext Warren Ohio Steel Div

STEEL, Glass Protected Smith Corp A O 27th & Hopkins Sts Milwau-kee 1 Wis

STEEL, Ground Flat Stock

American Saw & Mfg Co 67 Boyiston St American saw & Mig Co 97 Boylston St Springfield Mass Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I Capewell Mfg Co 60 Governor St Hartford 2 Conn

Darwin & Milner Inc 2346 St Clair Ave
Cleveland 14 Ohlo
Heller Tool Co Heller Dr Newcomerstown
Ohlo "Nucut"
Jessop Steel Co Green St Washington Pa
Milford—See Henry G Thompson & Son Co
Nucut—See Heller Tool Co
Porter Co H K Vulcan-Kidd Steel Div Ali-

Simonds Saw & Steel Co 470 Main St Fitchhurr Maus

burg Mass
Starret Co L S 1-165 Crescent St Athol Mass
Thompson & Son Co Henry G 277 Chapel St
New Haven 5 Conn "Milford"
Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohio

STEEL, High-Speed

Allegheny Ludium Steel Corp 2020 Oliver Bidg Pittsburgh 22 Pa Bethlehem Steel Co Bethlehem Pa Boker & Co H 101 Duane St New York 7 N Y Braeburn Alloy Steel Corp Braeburn Pa Carpenter Steel Co 101 W Bern St Reading

Pa Columbia Tool Steel Co Lincoln Highway & State St Chicago Heights III Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio Firth-Stering Inc 3113 Forbes St Pittsburgh 30 Pa

30 Pa Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind Jessop Steel Co Green St Washington Pa Latrobe Steel Co 2626 Ligonier St Latrobe Pa Porter Co H K Vulcan-Kidd Steel Div Ali-

Porter Co H K vuccus
quippa Pa
quippa Pa
Pittsburgh Tool Steel Wire Co Monaca Pa
Pepublic Steel Corp Republic Bldg Cleveland 1 Ohio
Universal-Cyclops Steel Corp Station St
Bridgeville Pa
Steel Co Latrobe Pa

Crucible Steel Co of America 535 Smithfield St Pittaburgh Pa Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohie

STEEL, Hot Rolled Strip Acme Steel Co 135th St & Perry Ave Chi-cago 27 Ill Alan Wood Steel Co Conshohocken, Pa "AW"

Armco Steel Corp 703 Curtis St Middletown

lanta 1 Ga
Bethlehem Steel Co Bethlehem Pa
Caine Steel Co 5501 W Grand Ave Chicago
39 Ill

39 Ill
Detroit Steel Corp P O Box 4308 Detroit Mich
Great Lakes Steel Corp Tecumseh Rd Ecorse
Detroit 29 Mich
Hynes Steel Products Co 2760 Oakwood Ave
Youngstown Ohlo
Inland Steel Co 30 W Monroe St Chicago

s III ones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa alser Steel Corp 1924 Broadway Oakland 12 Calif

Calif
Pittaburgh Steel Co 1600 Grant Bidg Pittaburgh 30 Pa
Republic Steel Corp Republic Bidg Cleveland
1 Ohio (Also Stainless)
Sharon Steel Corp Sharon Pa
Stanley Works (Pressed Metal Div) 198
Lake St New Britain Conn
United States Steel Córp 525 Wm Penn Pi
Pittsburgh 30 Pa
Weirton Steel Co Div of National Steel Corp
Weirton W Va
Youngstown Sheet & Tube Co P O Box 900

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

STEEL, Manganese

Bethlehem Steel Corp., Republic Bidg., Cleveland, Ohio.
United States Steel Corp 525 Wm Penn Pl Pittsburgh 30 Pa

STEEL, Nickel

Apollo Metal Works Inc Clearing Station Chicago 38 Ill (Nickel plated, in sheets and Bethlehem Steel Co Bethlehem Pa Carpenter Steel Co 101 W Bern St Reading

McInnes Steel Co 441 E Main St Corry Pa Republic Steel Corp Republic Bldg Clevels Ohio

Onio Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio United States Steel Corp 525 Wm Penn Pi Pittsburgh 30 Pa

Bliss & Laughlin 281 E 155th St Harvey Ill (Cold finished) La Salle Steel Co 1410 150th St Hammond Ind Republic Steel Corp Republic Blug Cleveland
1 Ohio stern Automatic Machine Screw Co 7 Woodland Ave Elyria Ohio

STEEL, Sheet

Acme-Newport Steel Co Ninth & Lowell Sts
Newport Ky
Alan Wood Steel Co Conshohocken Pa
"AW" (Hot and cold rolled)
American Nickeloid Co., Feru, Ili. (Nickel,
chroine, copper and brass platted.)
Apolio Metal Works, Inc., Clearing Station,
Chicago 38, Ill. (Chromium, nickel, copper
or brass platted.)
Armco Steel Corp 703 Curtis St Middletown
Ohio (Hot and cold zinc-coated and aluminized)
Bethlehem Steel Co Bethlehem Pa "Bath Cu

Bethlehem Steel Co Bethlehem Pa "Beth Cu Steel Co 5501 W Grand Ave Chicago

39 III

Came Steel Co 5501 W Grand Ave Chicago 39 III Coatesville Plate Washer Co 1644 Widener Bldg Philadelphia 7 Pa Crucible Steel Co of America 535 Smithfield St Pittsburgh Pa Detroit Steel Corp Box 4308 Detroit 9 Mich (Hot and cold rolled) Eastern Stainless Steel Corp P O Box 1975 Baltimore Md (Stainless) Great Lakes Steel Corp Tecumseh Rd Ecorse Detroit 29 Mich (Low carbon high tensile; cold and hot rolled) Hamden Steel & Aluminum Co State & Edmund Sts New Haven Conn (Cold rolled) Hynes Steel Products Co 3760 Oakwood Ave Youngstown Ohlo

Youngstown Ohio
Ingersoll Steel Div Borg-Warner Corp P O
Box 273 New Castle Ind (Carbon alloy and stainless)

Inland Steel Co 30 W Monroe St Chicago 3 Ill (Hot and cold rolled; enameled and

3 III (Hot and cold rolled; enameled and galvanized)
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa Kaiser Steel Corp 1924 Broadway Oakland 12 Calif (Hot and cold rolled) Pittsburgh Steel Co 1600 Grant Bldg Pitts-burgh 30 Pa

hurgh 30 Pa
Republic Steel Corp 1441 Republic Bldg
Cleveland 1 Ohio (Also stainless and electro-galvanized)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago III
Sharon Steel Corp Sharon Pa
Superior Steel Corp Sharon Ohio
Superior Steel Corp 3112 Grant Bldg Pittsburgh 19 Pa (Copper, monel or nickel
coated)

coated)
Tennessee Coal & Iron Div United States
Steel Corp P O Box 599 Fairfield Ala
United States Steel Corp 525 Wm Penn Pl
Pittsburgh 30 Pa (Stainless)
Universal-Cyclops Steel Corp Station St Bridgeville Pa

Bridgeville Pa
Washington Steel Corp Griffith & Woodland
Aves Washington Pa (Stainless)
Weirton Steel Co Div of National Steel Corp
Weirton W va (Hot and cold rolled
zinc coated; galvanized)
Wheeling Steel Corp., Wheeling Steel Bidg.,
Wheeling, W va
Youngstown Sheet & Tube Co P O Box 900
Youngstown 1 Ohio (Hot and cold rolled)

STEEL, Spring

American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio

Athenia Steel Div of National-Standard Co Clifton Ave Clifton N J (Flat high car-bon)

Barnes Co., Wallace, Div. of Associate Spring Corp., 18 Main St., Bristol. Conn. Bethlehem Steel Co Bethlehem Pa Blair Strip Steel Co., 1209 Butler Ave., New Castle, Pa.

Castle, Fa.
Burton Auto Spring Corp., 2432 W. 48th St.,
Chicago 22, Ill.
Cleveland Cold Rolling Mills Co 6813 Stroud
Rd Cleveland 30 Ohio (Strip)

Rd Cleveland 30 Ohio (Strip)
Crucible Steel Co of America 535 Smithfield
St Pittsburgh Pa
Detroit Steel Corp Box 4308 Detroit 9 Mich
(Flat cold rolled)
Great Lakes Steel Corp., Ecorae, Detroit 25,
Mich

Great Lakes Steel Corp., Mich. Mich. Jessop Steel Co Green St Washington Pa (Tempered sheet and strip)

1. Laughlin Steel Corp Strip Steel Div

Jones & Laughlin Steel Corp Strip Steel Div Youngstown 1 Ohlo Roebling's Sons Corp John A 640 S Broad St., Trenton, N. J.

STEEL, Spring-continued

Sharon Steel Corp Sharon Pa
Superior Steel Div of Copperweld Steel Co
Carnegie Pa (Strip)
United States Steel Corp 525 Wm Penn Place
Pittsburgh 30 Pa
STEEL, Vanadium

STEEL, Stainless

Allogheny Ludlum Steel Corp 2020 Oliver Bidg Pittsburgh 22 Pa Alloy-See H K Porter Co Armico Steel Corp., 703 Curtis St., Middle-town, Conn. (Sheet, strip, plate, bar and

wire.) vers Co A M 1076 Clark Bldg Pittsburgh Byers C 22 Pa

1975, Baltimore 3, Md.
Electro Metallurgical Co 30 E 42nd St New
York 17 N Y
Firth-Sterling Inc 3113 Forbes St Pittsburgh
30 Pa "Sterling" (Bar rod and wire)
Hamden Steel & Alurhinum Co State & Edmund Sts New Haven Conn (Bars, sheets

and coils)

and coils)

Hanimond & Irving, Inc., 254 North St.,
Auburn, N. Y.
Ingersoll Steel Div Borg-Warner Corp P C
Box 273 New Castle Ind
Jessop Steel Co., Green St., Washington, Pa
Jones & Laughlin Steel Corp Strip Steel Div
Youngstown 1 Ohio
McInnes Streel Co 441 E Main St Corry Pa
McLouth Steel Corp 200 S Livernois Ave
Detroit 17 Mich
Porter Co H K Riverside-Alloy Metal Div
Pavillon Ave Riverside N J "Alloy" (Wire
rod and strip)
Republic Steel Corp Republic Bldg Cleveland
Ohio

Circo Equipme
(Rahway) N
Cettra Chemic
troit 32 Mich
Hoffman—See
chinery Corp
United States
dustrial Filt
N Y 3 N Y

STOCKS, Die
Bull Dog—See G
Leader—See Oster Mig Co

rod and strip)
Republic Steel Corp Republic Bldg Cleveland
Ohlo
Rotary Electric Steel Co Box 4606 Detroit
34 Mich (Slabs billets and bars)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill
Sharon Steel Corp Sharon Pa
Superior Steel Div of Copperweld Steel Co
Carnegie Pa (Strip)
Tennessee Coal & Iron Div United States
Steel Corp P O Box 599 Fairfield Ala
Thomas Strip Div Pittsburgh Steel Co Delaware Ave Warren Ohio
Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohio
United States Steel Corp 525 Wm Penn Place
Pittsburgh 30 Pa
Universal-Cyclops Steel Corp Station St
Bridgeville Pa

Bridgeville Pa allingford Steel Co Valley St Wallingford

Wallingford Steel Co Valley St Wallingford Conn (Cold rolled strip) Washington Steel Corp Griffith & Woodland Aves Washington Pa

STEEL, Tool

Allegheny Ludium Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa (Alloy) Bethlehem Steel Co., Bethlehem. Pa. Boker & Co H 101 Duane St New York 7 N Y (Oil hardening) Braeburn Alloy Steel Corp., Braeburn, Pa

(Oli nardening)
Braeburn, Alloy Steel Corp., Braeburn, Pa
(Carbon)
Cannon-Muskegon Corp 2875 Lincoln St
Muskegon Mich (Nickel and cobalt)
Capewell Mfg Co 66 Governor St Hartford Carpenter Steel Co 101 W Bern St Reading

Pa Columbia Tool Steel Co Lincoln Highway & State St Chicago Heights III (Alloy; car-

bon)
Crucible Steel Co of America 535 Smithfield
St Pittaburgh Pa
Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill
Firth-Sterling Inc 3113 Forbes St Pittsburgh

30 Pa Hammond & Irving Inc 254 North St Auburn N Y

NY
Heppenstall Co., 4620 Hatfield St., Pittsburgh 1, Pa.
Ingersoll Steel Div Borg-Warner Corp P O
Box 272 New Castle Ind
Jessop Steel Co., Green St., Washington, Pa.
Latrobe Steel Co 2626 Ligonier St Latrobe Pa
(Carbon and alloy)
Porter Co H K Vulcan-Kidd Steel Div AllSTRAIGHTENING PRESSES See Process

quippa Pa
Republic Steel Corp., Republic Bldg., Cleveland 1. Ohio. (Alloy and carbon.)
Sharon Steel Corp Sharon Pa
Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohio
Universal-Cyclops Steel Corp. Station St
Bridgeville Pa

Vanadium-Alloys Steel Co Latrobe Pa (Car-STRAINERS, Gasoline bon, carbon-vanadium and chrome-vanabon, carbon-vanadium and chrome-dium precision ground and drill rod)

Bethiehem Steel Co., Bethiehem, Pa. Carpenter Steel Co., 101 W. Bern St., Read-

ing, Pa.

McInnes Steel Co 441 E Main St Corry Pa
Porter Co H K Vulcan-Kidd Steel Div Aliquipa Pa
Republic Steel Corp., Republic Bidg., Cleveland 1, Ohio.

Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohio

STEERING APPARATUS — See Connections, Steering; Gears, Steering; Knobs, Steering Wheel; Parts, Steering Gear; Pins, King; also Wheels, Steering 22 Pa
Cannon-Muskegon Corp 2275 Lincoln St
Muskegon Mich
Carpenter Steel Co 101 W Bern St Reading
Pa
Crucible Steel Co of America 535 Smithfield
St Pittsburgh Pa
Eastern Stainless Steel Corp., P. O. Box
1975, Baltimore 3, Md.

STEERING APPARATUS — See Connections, Steering; Gears, Steering; Knobs, Steering
Wheel; Parts, Steering Gear; Pins, King; also Wheels, Steering
STEP HANGERS—See Hangers, Step (Pressed Steel)
STEP PLATES—See Plates, Step

STEP PLATES—See Plates, Step

STIFFENERS, DOOR PANEL FOUNDATION
—See Binders, Panel (Steel or Composite)

STILLS, Solvent Recovering

Circo Equipment Co 120 Central Ave Clark (Rahway) N J ical Industries Inc Box 501 De-

Detrex Chemical Industries Inc Dox 301 De-troit 32 Mich Hoffman—See United States Hoffman Ma-chinery Corp United States Hoffman Machinery Corp In-dustrial Filtration Div 103 Fourth Ave N Y 3 N Y "Hoffman"

Bull Dog-See Oster Mfg Co Leader-See Oster Mfg Co Oster Mfg Co E 289th St Wickliffe Ohio "Bull Dog" & "Leader" "Bull Dog" & "Leader"
Pratt & Whitney Co Charter Oak Blvd West Fratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn Reed Mfg Co Box 1321 Erie Pa (Pipe) Rimac—See Rinck-McIlwaine Inc Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"

N Y "Rimac" oledo Pipe Threading Machine Co 1445 Summit Ave Toledo 4 Ohio (Bolt)

STONES, Rubbing

Bay State Abrasive Products Co 12 Union St Westboro Mass Borolon—See Simonds Abrasive Co Electrolon—See Simonds Abrasive Co Simonds Abrasive Co Tacony & Fraley Sts Philadelphia 37 Pa "Borolon" "Electrolon"

STONES, Sharpening

Alundun—See Behr-Manning Co
Arkansas—See Behr-Manning Co
Bay State Abrasive Products Co. 12 Union
St., Westboro. Mass
Behr-Manning Co 4457 Howe St Troy N y
"Alundum" "Arkansas" "Crystolon" "India" "Queer Creek" "Washita"
Borolon—See Simonds Abrasive Co
Carborundum Co Buffalo Ave Niagara Falls
N y

STRAPS, Rebound

N Y
Crystolon—See Behr-Manning Co
Electrolon—See Simonds Abrasive Co
India—See Behr-Manning Co
Macklin Co Jackson Mich
Queer Creek—See Behr-Manning Co
Simonds Abrasive Co Tacony & Fraley Sts
Philadeliphia 37 Pa "Borolon" "Electrolon"
Washita—See Behr-Manning Co
Wissota Mfg Co 1301 S 3rd St Minneapolis
Min

STOP LAMPS-See Signals, Direction Indicating (Auto)

STOP LIGHT SWITCHES—See Switches, Stop STRIPS, Sill Light

STRAIGHTENING PRESSES - See Presses.

STRAIN GAGES, METAL-See Instruments, STRIPS, Weather (Windshield, Window, Metal Testing

STRAINER SCREENS-See Cloth, Wire STRAINERS, AIR-See Cleaners, Air

(Metal strainers only; for filter assemblies to use between fuel tank and carbuuse between fuel tank and corretor—See Filters, Gasoline (Auto))

AC The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich Anderson Brass Co 100 S Campbell Ave De-troit 3 Mich

Audubon Wire Cloth Corp., Richmond & Castor Ave., Philadelphia 34, Pa. Buckeye Iron & Brass Works 224 E Third St Dayton 1 Ohio Chrysler Corp., Amplex Div., 6501 Harper Ave., Detroit 31, Mich. "Ollite." Cleveland Wire Cloth & Mfg. Co., 3573 E 78th St., Cleveland 5, Ohio. Cuno Engineering Corp 50 S Vine St Meric n Conn "Cuno Auto-Klean" Darby & Sons Edw J 1517 Germantown Ave Philadelphia 22 Pa Granberg Corp 1308 67th St Oakland 8 Calif "Granco"

"Granco"
Granco-See Granberg Corp
Imperial Brass Mfg Co 6300 W Howard St
Chicago 31 III
Lunkenheimer Co Beekman St & Waverly
Ave Cincinnati 14 Ohio "Trusty"
Michigan Wire Cloth Co 2100 Howard St
Detroit 16 Mich

Detroit 16 Mich
Newark Wire Cloth Co., 351 Verona Ave.
Newark 4, N. J.
Ollite—See Chrysler Corp., Amplex Div.
Purolator Products Inc Wayne Div Wayne
Mich
Roylyn Inc 620 Paula Ave Glendale 1 Calif
(Sole distributors Airaterra 620 Paula Ave
Glendale 1 Calif)
Trusty—See Lunkenheimer Co

STRAINERS, Gasoline or Oil (Industrial)

Johnson Mfg Co 2825 E Hennepin Ave Min-neapolis Minn Michigan Wire Cloth Co 2100 Howard St Detroit 16 Mich Purolator Products Inc Wayne Div Wayne Mich Roylyn Inc 620 Paula Ave Glendale 1 Calif (Sole distributors Airaterra 620 Paula Ave Glendale 1 Calif) Sarco Co 635 Madison Ave New York 22 N Y (Oil)

STRAINERS, OII

(For use in oil pumps to remove dirt and water; see also Filters, Oil [For Attaching to Engine]) Anderson Brass Co 100 S Campbell Ave De-

Anderson Brass Co 190 S Campbell Ave Detroit 9 Mich Audubon Wire Cloth Corp Richmond St & Castor Ave Philadelphia 34 Pa Cleveland Wire Cloth & Mig Co 3573 E 78th St Cleveland 5 Ohio Granberg Corp 1308 67th St Oakland 8 Calif "Granco" Grancos See Granberg Corp.

"Granco"
Granco-See Granberg Corp
Michigan Wire Cloth Co 2100 Howard St
Detroit 16 Mich
Newark Wire Cloth Co 351 Verona Ave
Newark 4 N J
Purolator Products Inc Wayne Div Wayne

Purolator Products Inc Wayne Div Wayne Mich Roylyn Inc 620 Paula Ave Glendale 1 Calif (Sole distributors Airaterra 620 Paula Ave Glendale 1 Calif)

(See also Shock Absorbers, Friction, Hydraulic and Pneumatic)

Black Diamond—See Uniform Hood Lace Co. Graton & Knight Co., 356 Franklin St., Worcester 4, Mans. Stevens Co. A. T., 118 E. 28th St., New York 16, N. Y. Uniform Hood Lace Co 633 E St Clair St In-dianapolis 2 Ind "Black Diamond"

STRIP STEEL-See Steel, Cold Rolled Strip; Steel, Hot Rolled Strip

(For setting door and window glass) Belco Industries, Inc., 1628 Bates St., In-dianapolis 1, Ind. Sealtite—See Union Welt Corp. Standard Products Co 2130 W 110th St Cleve-

land 2 Ohio Union Welt Corp 1316 S Pulaski Rd Chicago 23 Ill "Sealtite"

STRIPS, SPONGE RUBBER—See Rubber, Sponge

Etc.)

Accurate Products Inc 135 N Spring St In-dianapolis Ind

Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ili

St Chicago 7 Ill
Automotive Products Div Crotty Corp 19 E
Chicago Ave Quincy Mich "YankeeSeel"
Au-ve-Co-See Auto Vehicle Parts Co
Auto Vehicle Parts Co 1032 Saratoga St
Newport 6 Ky "Au-ve-Co"
Bridgeport Fabrics Inc 165 Holland Ave
Eridgeport 9 Conn "Inner Seal" (Door)
Brockton Stay Co., 24 Essex St., Haverhill,
Mass.

Mass

Brockton Stay Co., 24 Essex St., Haverhill, Mass.

Buckeye Rubber Products Inc 637 N Jacksor St Lima Ohio
Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
Chardon Rubber Co Sixth & Washington Ave Chardon Ohio
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalie"
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn (Windshield window door and trunk)
Dutch Brand — See Johns-Manville Dutch Brand Div
G & G Products Co Lindale Rd Amelia Ohio
"Stick-Tite"

Brand Div

G & G Products Co Lindale Rd Amelia Ohio

"Stick-Tite"

General Tire & Rubber Co., Englewood &
Holmes Ave., Akron. Ohio

Goodrich Industrial Products Co B F 500 S
Main St Akron 18 Ohio
Goodrich Sponge Products Div B F Howe
Ave Shelton Conn "Spongex"
Holdfast.—See Koehler Rubber & Supply Co.
Hope Webbing Co., Providence, R. I.
Industrial Rubber Goods Co., St. Joseph,
Mich.,
Inland Mrg. Div., General Motors Corp., 272:
Inland Ave., Dayton 1, Ohio.
Inner Seal—See Bridgeport Fabrics, Inc.
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 16 Ill "Dutch Brand"
Johnson Rubber Co Middlefield Ohio
KM—See Kravex Mfg. Corp.
Kar-Seal—See Kastar Inc.
Kastar, Inc., 200 Lincoln Ave., New York 54,
N. Y. "Kar-Seal." "Stix On."
Koehler Rubber & Supply Co., 2865 Carnegle
Ave., Cleveland 15, Ohlo, "Holdfast."
Kravex Mfg Corp 534 Prospect Pl Brooklyn
N Y "Stik-Rite" & "KM" (Door and
tunk)
Lange Machine Works Henry G 156 N May

trunk)
Lange Machine Works Henry G 156 N May
St Chicago 7 III
Lightnin-See R J Loock & Co
Loock & Co R J 243 N Gay St Baltimore Md
"Lightnin"

Ohio Rubber Co 300 Ben Hur Ave Willoughby
Ohio "Orco"

Ohio Rubber Co 300 Ben Hur Ave Willoughby
Ohio "Orco"
Orco—See Ohio Rubber Co
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Sealtite—See Union Welt Corp.
Spongex—See B F Goodrich Sponge Products Div

ucts Div Standard Products Co., 2130 W. 110th St. Cleveland 2, Ohio. Stick-Tite—See G & G Products Co

Stik-Rite-See Kravex Mfg Corp

Stix On—See Kastar, Inc.
Union Welt Corp 1316 S Pulaski Rd Chicago
23 Ill "Sealtite"

23 Ill "Sealtite"
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Vitalio—See Continental Rubber Works.
Western Feit Works 4021 W Ogden Ave Chicago 23 Ill

YankeeSeel—S Crotty Corp -See Automotive Products Div

STUD BOLT EXTRACTORS—See Extractors, Bolt and Screw

STUD DRIVERS-See Setters, Stud. Nut, Bolt and Lag Screw

STUD WELDING EQUIPMENT—See Welders
& Equipment, Stud

STUDS

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio (Cylinder head) Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.

-See Canady-Wiley Co C-w—See Canady-Wiley Co Canady-Wiley Co P O Box 693 Huntington Park Calif "C-W" (Cone wheel and axle) Central Screw Co., 38ai S. Shields Ave., Chi-cago 9, Ill. Also "Schweppe" self-tapping and self-locking [Licensees] Champ-Items Inc 6191 Maple Ave St Louis SUSPENSIONS, Air (Truck, Trailer Mo Clark Bros Bolt Co Canal St Milldale 1 Conn Cleveland Cap Screw Co 2917 E 79th St Cleveland 4 Ohlo

Clark Equipment Co Buchanan Mich Loadcraft—See Spencer-Safford Loadcraft

Cieveland 4 Onio
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Onio (Cylinder head manifold
oversize and wheel)
Driv-Lok Pin Co Park Ave & Chauncey St

Driv-Lok Pin Co Park Ave & Chauncey St Sycamore III (Grooved) Ferry Bros 3474 Theurer Ct Cleveland 9 Ohlo Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohlo, "Shinylands." Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohlo Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J

Ridgefield N J
Hartford Machine Screw Co., P. O. Box 1440.
Hartford, Conn.
Haydon Bolts Inc Adams Ave & Unity St
Philadelphia 24 Pa.
Highlund Machine Co 2215 Superior Ave
Cleveland 14 Ohlo (Engine and chassis)

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.

Hill Nut Co., 2620 W. Flournoy St., Chicago 12. III.
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Lok-Thred—See National Screw & Mfg Co Lundberg Screw Products Co., P. O. Box 1318, Lansing 4, Mich.
Mac It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Oh! "Lok-Thred"
Newton Insert Cc 500 Avalon Blvd Los Angeles 3 Calif
Ottemiller Co., Wm. H., Pattison St. & M. & P. R., York, Pa.
P-M—See Waterbury Pressed Metal Co.
Pheoli Mfg Co 5700 W Roosevelt Rd Chicago 50 III "Pheoli Schweppe" (Licensors)
Prior Products, Inc., 4828 Racell St., Dallas, Tex.

Ravenna Metal Products Div of Standard Screw Co 6518 Ravenna Ave Seattle 5

Screw Co 6518 Ravenna Ave Seatue b Wash
Republic Steel Corp Republic Bldg Cleveland 1 Ohio (Alloy steel)
Rhode Island Tool Co., 148 W. River St.,
Providence 1. R. I.
Rockford Screw Products Co., 2501 Ninth
St., Rockford, III.
Rosan Inc 2901 W C est Highway Newport
Beach Calif (Screw thread)
St Louis 15 Mo
Schweppe—See Central Screw Co
Shinylands—See Ferry Cap & Set Screw Co
Standard Pressed Steel Corp P O Box 395
Jenkintown Pa

Jenkintown Pa. Sterling Bolt Co 363 W Erie St Chicago 10

III
Townsend Co New Brighton Pa
Voi-Shan Mfg Co 8463 Higuera St Culver
City Calif
Waterbury Pressed Metal Co 300 Chase Ave
Waterbury Conn "P-M"
Western Automatic Machine Screw Co
377 Woodland Ave Elyria Ohio

STUDS, Welding

TUDS, Weiding

American-Monarch Corp 5900 Park Ave
Cleveland 5 Ohio
Cleveland Cap Screw Co 2917 E 79th St
Cleveland 4 Ohio
K S M Products Inc Woodland Ave & Yale
Rd Merchantville 8 N J
Nelson Stud Weiding Div Gregory Industries
Inc Toledo Ave & E 28th St Lorain Ohio

SUPERCHARGERS, Engine

Fageol Marine Engine Co 888 Gull St San
Diego 1 Calif "Pepco"
M-D—See Miehle-Dexter Supercharger Div
McCulloch Motors Corp 6101 W Century Blvd
Los Anzeles 45 Calif (Sole distributors
Paxton Produc'. 3 827 W Olive St Inglewood

WITCHES, Engine Control (Machin-Callf)
Michie-Dexter Supercharger Div of Christensen Machine Co 100 4th St Racine Wi'M-D"

"M-D" Penco—See Fageol Marine Engine Co-Schwitzer Corp 1125 Massachusetts Ave In-dianapolis 7 Ind (Roots type) SUPERFINISHING MACHINES — See Ma-chines, Superfinishing

SUPPORTS, CAR-See Horses and Trestles SUPPORTS, TRAILER-See Gears, Landing (Trailer)

Atlas Bolt & Screw Co 1130 Ivanhoe Rd SUPPRESSORS. MOTOR RADIO—See Radio Cleveland 10 Ohio Accessories (Auto)

SURGE TANKS-See Tanks, Surge (For Radiators) SURFACE PLATES-See Plates, Surface and

SUSPENSION UNITS. AXLE (FOR TRAIL ERS)—See Axle Suspension Units, for Trailers

Inc
Neway Equipment Co 1183 E Laketon St
Muskegon Mich (Truck and bus)
Spencer-Safford Loadcraft Inc Augusta
Kan "Loadcraft"
Trucktor Corp P O Box 120 Westfield N J
Yocar Airide—See Youngstown Steel Car
Corp Corp Youngstown Steel Car Corp Hunter St Niles Ohlo "Yocar Airide"

SWITCHBOARDS, CHARGING—See Panels and Switchboard, Battery Charging

SWITCH KEYS-See Keys, Switch and Starting

SWITCH LOCKS-See Locks, Ignition

SWITCHES, Air Filter Replacing

Fulton Sylphon Div Robertshaw-Fulton Con-trols Co W Cumberland St Knoxville 1 Tenn

SWITCHES, Direction Indicating Signal (Auto)

AMI—See Advanced Mfg Inc
Advanced Mfg Inc 738 W 17th St Costa
Mesa Calif "AMI"
Arrow Safety Device Co., Mt. HoHy, N. J.
Auto Lamp Mfg Co 2909 S Indiana Ave
Chicago 9 Ill
Carter Parts Co 2401 W Madison St Skokie

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind Dietz Co R E 225 Wilkinson St Syracuse 1 N 1

N Y Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.

Railroad St., Bronson, Mich. F & B Mfg Co 4248 W Chicago Ave Chicago 51 III

Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
K-D Lamp Co 1910 Elm St Cincinnati 10

K-D Lamp Co 1910 Elm St Cincinnati 10 Ohio
Marion Truck Equipment Co 5275 S Archer Ave Chicago 22 Ill (Truck)
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Ring-Wald Products 123 N Lowry Ave Springfield Ohio (For school buses)
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich Sigflare—See Signal-Stat Corp Signal-Stat Corp Signal-Stat Corp Signal-Stat Corp Signal-Stat Corp Signal Stat";
"Sigflare" (Combination directional signal switch and emergency flashing switch for disability parking)

disability parking)
Sparton Automotive Div of Sparton Corp
Jackson Mich (Self-cancelling)
Speaker Corp J W 3059 N Well St Milwaukee
12 Wis

12 Wis
Valley Forge Products Inc 370 19th St Brook-lyn 15 N Y
Vulcan—See Paragon Products Corp
Wheel-O-Matic—See Yankee Metal Products

Corp Metal Products Corp 25 G Norwalk Conn "Wheel-O-Matic' cancelling)

erv) Detroit Controls Corp 5900 Trumbull Ave De-troit 8 Mich

STRAINERS • SCREENS Production runs to special order

MICHIGAN WIRE CLOTH COMPANY DETROIT 16, MICH. 2100 HOWARD .

Circle 258 on Inquiry Card for more data

SWITCHES, Floor or Foot (Auto)

(For signals, headlight dimming, etc.) Auto-Lite—See Electric Auto-Lite Co Blue Streak—See Standard Motor Products, Inc.

rter Parts Co 3401 W Madison St Skokie TII Clum Mfg. Co., 601 W. National Ave., Mil-waukee 4, Wis. Cole-Hersee Co., 28 Old Colony Ave., Boston

27, Mass. Zi, Mass. Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind (Foot, dim-

ming)
Richlin Mfg Co U S Route 1 Branford Conn

ES ctric Auto-Lite Co Toledo 1 Ohio "Auto-

Electric Auto-Lite Co Toledo 1 Ohic "Auto-Lite"

F & B Mfg Co 4248 W Chicago Ave Chi-cago 51 Ill "Filko" (Headlight dimming)

Filko—See F. & B Mfg. Co.

Freedco Products Inc 36-08 33rd St Long
Island City 6 N Y

Gasco—See General Automotive Specialty Co.

Gasco—See General Automotive Specialty Co
General Automotive Specialty Co 10-40 45th
Ave Long Island City 1 N Y "Gasco"
(Headlight dimming)
Guaranteed Parts Co Seneca Falls N Y
(Headlight dimming)

(Headlight dimming)
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
(Headlight dimming)
Illaco—See Illinois Accessories Co
Illinois Accessories Co 317 E Ontario St Chicago 11 Ill "Illaco" (Headlight dimming.

cago 11 Ill "Illaco" (Headlight dimming, foot)
K-D Lamp Co 1910 Elm St Cincinnati 10
Ohlo
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J

(Headlight dimmine)
M D Parts Mig Co 4395 E Olympic Bivd Los
Angeles Calif
Machined Parts Corp., 6209 Hamilton Ave.
Detroit 2, Mich. "Mapco." (Headlight dim-

ming.)

ming.)
Mapco—See Machined Parts & Mfg Co
National—See Wheel Parts & Mfg Co
National Ignition Mfg Co 521 W 23rd St
New York 11 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave
Chicago 30 III (Headlight dimming)
Nimco—See National Ignition Mfg Co
Ohlo Mfg Co 924 S Theresa Ave St Louis 3

Island City, L. I., N. Y. (Headlight dimming.)
Pollak Corp Joseph 75 Freeport St Boston 12 Mass
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 12, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Bivd., Long Island City, L. I., N. Y.
"Blue Streak" (Headlight dimming.)
Switches Inc 317 E Ontario St Chicago 11 Ill (Headlight dimming)
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 16 N Y
Wheel Parts & Mfg Co 352 Fourth Ave N Y 18 N Y "National"

SWITCHES, Heater

Ark-Les Switch Corp 51 Water St Water-town 72 Mass C-H-See Cutler-Hammer Inc Carter Parts Co 3401 W Madison St Skokie

Clum Mfg Cn. 461 W. National Ave., Mil-waukee 4, Wis. Cle-Hernec Co., 26 Old Colony Ave., Boston Mass. Calver-Stearns Mfg Co. 181 Greenwood St Worcester 7 Mass Cutter-Hammer Inc 362 N 12th St Milwaukee

Cutier-Hammer Inc 362 N 12th St Milwaukee
1 Wis "C-H"
Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ili
Gasco-See General Automotive Specialty Co.
General Automotive Specialty Co 10-40 45th
Ave Long Island City 1 N Y "Gasco"
Guaranteed Parts Co., Seneca Palls, N Y.
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
K-D Lamp Co 1910 Elm St Cincinnati 10
Obto

Ohio Kem Mfg Co 30-21 Wagaraw Rd Fair Lawn N J

N J Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. Paragon Products Corp 140 Astor St New-ark 5 N J "Vulcan" (Sole distributors Vul-can Motor Products Inc 1060 Broad St Newark 2 N J)

Newark 2 N J) Hak Corp., Joseph, 75 Freeport St., Bos-ton 22, Mass.

Preferred Electric & Wire Co., Bush Terminal Bidg, No. 8, Brooklyn 32, N. Y. Standard Motor Products Inc 37-18 North ern Bivd, Long Island City, N. Y. Tasco Products Divy f Guaranteed Parts Co Seneca Falls N Y. Valley Forge Products Inc 370 19th St Brooklyn 15 N Y.

lyn 15 N Y Vulcan—See Paragon Products Corp

SWITCHES, Ignition

Andrew Parts Mig Co 32-70 31st St Long Island City 6 N Y

Auto-Lite—See Electric Auto-Lite Co Bendix—See Scintilla Div Bendix Aviation

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee I. Wis. Carter Parts Co 3401 W Madison St Skokie III

Clum Mfg. Co., 601 W. National Ave., Mil-waukee 4, Wis. Cole-Hersee Co., 20 Old Colony Ave., Boston

Mass

27 Mass
DSM Electric Co 6209 John Lodge Expressway Detroit 2 Mich
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Douglas Mfg. Div., Kingston Products Co.,
Railroad St., Bronson, Mich.
Electric Auto-Lite Co Toledo 1 Ohio "AutoLite"
AB Mfg. Co. 4248 W. Chicago Ave. Chi.

Lite"
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products Inc 36-08 33rd St Long Island City-6 N Y
Gasco—See General Automotive Specialty

Co.
General Automotive Specialty Co 10-40 45th
Ave Long Island City 1 N Y "Gasco"
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
Machined Parts Corp., 6209 Hamilton Ave.,
Detroit 2. Mich. "Mapco."

Machined Farts Corp., 6209 Hamilton Ave., Detroit 2. Mich. "Mapco." Mapco.—See Machined Parts Corp. Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia

Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (For Ford, Chevrolet and Plymouth cars. Murphy Mfr Inc Frank W 5428 E Admiral Pl Tulsa Okla (Magnetic)
National—See Wheel Parts & Mfg Co Pilot.—See Motive Equipment Mfrs., Inc. Pollak Corp., Joseph, 75 Freeport St., Boston 22 Mass.

Foliak Corp., Joseph, 75 Freeport St., Boston 22, Mays.
Preferred Electric & Wire Co Bush Terminal Bidg No 8 Brooklyn 32 N Y
R-B-M Div Essex Wire Corp Chestnut & Hanna Sts Logansport Ind
Scintilla Div Bendix Aviation Corp Sidney N Y "Bendix"
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y

77 N Y
Switches Inc 317 E Ontario St Chicago 11 III
Synchro-Start Products Inc 3151 N Ridgeway
Ave Skokle III (Automatic)
Tasco Products Div of Guaranteed Parts Co
Seneca Falls N Y
Valley Force Products Inc 370 19th St Brooklyn 15 N Y
Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National"

SWITCHES, Ignition (Cut-Off)

(Cuts off ignition in case of collision of turn of car or truck, or short circuit turn of car or truck, or short circuit)
Almquist Engrg Co Milford Pa "Spark-O-Matie"
Cole-Hersee Co 20 Old Colony Ave Boston 27
Mass
Durakool. Inc., 1010 N. Main St., Eikhart
Ind. "Tinover"
Mak-Saf-See Rochester Mfg Co
Reynolds Electric Co 3000 River Rd River
Grove III

Mak-Saf-See Rochester Mfg Co Reynolds Electric Co 3000 River Rd River Grove III Rochester Mfg Co 100 Rockwood St Rochester 10 N Y "Mak-Saf" Spark-O-Matic—See Almquist Engrg Co Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie III Tipover—See Durakool, Inc.

SWITCHES, Industrial Safety

7610 Jos "Vacu Buildog Electric Products Co., 7 Campau Ave., Detroit 32, Mich.

Break."
C-H—See Cutler-Hammer Inc
Coit's Patent Fire Arms Mfg. Co., 17 Van
Dyke Ave., Hartford, Conn.
Cutler-Hammer Inc 362 N 12th St Milwaukee
1 Wis "C-H"
E C & M—See Electric Controller & Mfg.

Electric Controller & Mfg Co Div of Square
D Co 4500 Lee Rd Cleveland 28 Ohio "E C
& M"
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Licon Switch & Control Div Illinois Tool
Works 2501 N Keeler Ave Chicago 39 Ill
Square D Co., 6060 Rivard St., Detroit 11,
Mich.

Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie III
Vacu-Break—See Bulldog Electric Products
Co.

Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

SWITCHES, Light

(For turning on and off lights on car) Ark-Les Switch Corp 51 Water St Water-town 72 Mass C-H-Sec Culler Hammer Inc Carter Parts Co 3401 W Madison St Skokle

Clum Mfg. Co., 601 W. National Ave., Mil-waukee 4, Wis. Cole-Hersee Co., 20 Old Colony Ave., Boston

Cole-Hersee Co., 20 Old Colony Ave., Boston 21, Mass.
Connecticut Telephone & Electric Corp. 25
Britannia St Meriden Conn
Controls Corp of America Soreng Div 9555
Soreng Ave Schiller Park III
Culver-Stearns Mfg Co 181 Greenwood St
Worcester 7 Mass
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis "C-H"
Pelco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Delta Electric Co., 33rd & Nebraska Sts.,
Marlon, Ind. (For dome lights.)
Douglas Mfg. Div., Kingston Products Co.,
Railwad St., Bronson, Mich.
Electric Auto-Lite Co Toledo 1 Ohio
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, III.
Fasco Industries Inc 400 Davis St Rochester
2 N Y (Headlamp)
Gasco—See General Automotive Specialty

Gasco-See General Automotive Specialty

Co.
General Automotive Specialty Co 10-40 45th
Ave Long Island City 1 N Y "Gasco"
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohlo.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
K-D Lamp Co 1910 Elm St Cincinnati 10

Guarantees
Ideal Corp 438 Liberty Ave
K-D Lamp Co 1910 Elm St Cincinnate
K-D Lamp Co 1910 Elm St Cincinnate
K-S-See Kilborn-Sauer Co.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.

"W-See M H Rhodes Inc.
Estarpriset

"K-S."
Mark-Time Kar-Lite—See M H Rhodes Inc
Mitchel Specialty Div Industrial Enterprises
Inc Edmund & Shelmire Sts Philadelphia

36 Pa
National—See Wheel Parts & Mfg Co
National Ignition Mfg Co 521 W 23rd St New
York 11 N Y "Nimeo"
Niehoff & Co., C. E., 4925 W. Lawrence Ave.,
Chicago 30, Ill.
Nimco—See National Ignition Mfg Co
Paragon Products Corp 140 Astor St New
ark 5 N J "Vulcan" (Sole distributors
Vulcan Motor Products Inc 1060 Broad St
Newark 2 N J)
Pollak Corp., Joseph, 75 Freeport St., Bos-

Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Regal Motor Products Inc 6825 Grand River Ave Detroit 8 Mich
Rhodes Inc M H 30 Bartholomew Ave Hartford 6 Conn "Mark-Time Kar-Lite" (Automatic timing for headlights) Standard Motor Products, inc. 2718 Northern Bivd., Long Island City, N. Y.
Tasco Products Div of Guaranteed Parts Cosenca Falls N Y
Vulcan—See Paragon Products Corp
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Wheel Parts & Mfg Co 352 Fourth Ave N T
10 N Y "National"

SWITCHES, Low Air Pressure Warning (Truck)

Fasco Industries Inc 400 Davis St Rochester 2 N Y

Jos. SWITCHES, Pressure

C The Electronics Div of General Motors 1300 N Dort Hway Flint 2 Mich

SWITCHES, Seat and Window (Elec-

Electric Co 33rd & Nebraska Sts

SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Ampco.—See American Motor Products Co. Auto-Life.—See Electric Auto-Life Co. Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill "Test-Aid" (Remote control)
Carter Parts Co 3401 W Madison St Skokle

III
Clum Mfg. Co. 601 W. National Ave., Milwaukee 4, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div General Motors Corp 2401
Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electra Mfg Co 800 N 21st St Independence

Kans ric Auto-Lite Co Toledo 1 Ohio "Auto-

Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chi-cago 51, Ili. "Filko." (Solenoid.)
Filko-See F. & B. Mfg. Co.
Freedco Products Inc 35-98 33rd St Long Island City 8 N Y
GP-See Guaranteed Parts Co.
Gasco-See General Automotive Specialty

Co.
General Automotive Specialty Co 10-40 45th
Ave Long Island City 1 N Y "Gasco"
(Dash and floor)
Guaranteed Parts Co., Seneca Falls, N. Y.
"GP."

Guaranteed Farts Co., Seneca Fans, N. 1.

"GP."

Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich (Remote control)

Illinois Accessories Co 217 E Ontario St Chicago 11 III "Illiaco"

Kem Mig. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

L-N-See Leece-Neville Co.
Leece-Neville Co 1274 E 51st St Cleveland \$
Ohio "L-N"

M D Parts Mig Co 4295 E Olympic Blvd Los
Angeles Calif

Machined Paris Corn., 6209 Hamilton Ave.,
Detroit 2, Mich. "Manco."

Manco-See Machined Parts Corp.
National—See Wheel Parts & Mig Co

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Manco."

Manco.—See Machined Parts Corp.

National—See Wheel Parts & Mfg Co.

National Ignition Mfg. Co., 521 W. 23rd St.,

New York 11. N. Y. "Nimco."

Nichoff & Co., C. E., 425 W. Lawrence Ave.,

Chicago 30. III.

Nimco.—See National Ignition Mfg Co.

Ohio Mfg Co. 324 S Theresa Ave St Louis 3.

Mo.

Ohio Mfg Co 924 S Theresa Ave Mo Mo Mo P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp., Joseph, 75 Freeport St., Boston 22 Mass.

Newark z 17

Pollak Corp., Joseph, 75 Freepor S., 22, Mass.

Preferred Electric & Wire Co., Bush Terminal Bidg. No. 8, Brooklyn 32, N. Y.

R.B.-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Locansport, Ind

Shurhit Products Ine 845 8 Market St Waukegan III

Sarensen Mfg Co P 32-31 57th St Woodside

77 N Y
Standard Motor Products Inc 37-18 Northern Blvd., Lone Island City, L. I., N. \
Switches Inc 317 E Ontario St Chicago 11 III
Tasco Products Div of Guaranteed Farts Co
Seneca Falls N Y (Mechanical and sole-

noid)
Test-Aid—See Auto-Test Inc
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Vulcan—See Paragon Products Corp
Wells Mfg Corp 12 S Brooke St Fond du
Lac Wis Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National"

SWITCHES, Starter (Automatic)

Bendix-Startix—See Ecilpse Machine Div Bendix Aviation Corp Bendix Aviation Corp.
Eclipse Machine Div., Bendix Aviation Corp.,
Elmfra, N. Y. "Bendix-Startix."
Murphy Inc Frank W 5428 E Admiral Pl
Tulsa Okla Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis. "Ampco." Ampco-See American Motor Products Co

Amproo—See American Motor Products Co.
Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Bendix-Westinghouse Automotive Air Brake
Co 901 Cleveland Rd Elyria Ohio
Carter Parts Co 3401 W Madison St Skokle
III

Clum Mfg. Co. waukee 4, W 601 W. National Ave., Mil-Wis.

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. Delta Electric Co., 33rd & Nebraska Sts.,

Marion, Ind.
Douglas Mfg. Div., Kingston Products Co.,
Railroad St., Bronson, Mich.
Els Automotive Corp Box 701 Middletown,

Conn
Conn
Electric Auto-Lite Co Toledo I Ohio
Fasco Industries, Inc., '400 Davis St., itochester 2, N. Y.
GP—See Guaranteed Parts Co.
Sanca Falls, N. Y.

Guaranteed Parts Co., Seneca Falls, N. Y. "GP." K-D

Lamp Co 1910 Elm St Cincinnati 10 Ohio

K-S-See Kilborn-Sauer Co.

Kelsey-Hayes Co 3600 Military Ave Detroit

32 Mich (Trailer)
Rem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
"K-8."

"K-8."
Lockheed—See Wagner Electric Corp.
Loock & Co R J 343 N Gay St Baltimore Md
Machined Parts Corp., 6209 Hamilton Ave.,
Detroit 2, Mich. "Mapco."
Mapco—See Machined Parts Corp.

Mapco—See Machined Parts Corp.

Master Parts Div Airtex Products Inc Fairfield Ill

field III

Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich (Trailer)

Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, III. "Pilot."

Murray Corp E. Joppa Rd Towson 4 Md

National—See Wheel Parts & Mfg Co

National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."

Nimco—See National Ignition Mfg Co

P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.

Perfect Parts Inc 43 W 23rd St. N. Y. 10 N Y

Pilot—See Motive Equipment Mfrs., Inc.

Pollak Corp Joseph 75 Freeport St Boston 22 Mass

Pollak Corp Joseph 75 Freeport St Boston
22 Mass
Preferred Electric & Wire Co., Bush Terminal Bidg, No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut &
Hanna Sts., Logansport, Ind.
Sorensen Mfg Co P 22-31 5th St Woodside
77 Ny
Standard Motor Products, Inc., 37-18 Northn. Bivd., Long Island City 1, Long Island
New Products Div of Guaranteed Parts Co.

N. Y.
Tasco Products Div of Guaranteed Parts Co
Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wagner Electric Corp, 6400 Plymouth Ave.,
St. Louis 14, Mo. "Lockheed."
Weatherhead Co Fort Wayne Ind
Wells Mfg Corp 12 S Brooke.St Fond du Lac
Wis
Wis

Wis Wheel Parts & Mfg Co 352 Fourth Ave N Y 10 N Y "National" Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

SWITCHES, Temperature

AC The Electronics Div of General Motors Corp 1300 N Dort Hway Flint 2 Mich SWITCHING RELAYS-See Relays, Switching

SYSTEMS, Dust (Exhaust and Collec-

tor) ABC Sirocco—See American Blower Corp Abrasive Machine Tool Co., Dexter Rd., East Providence 14. R. I. Aerodyne—See Research-Cottrell Inc American Blower Corp., Detroit 32, Mich. "ABC Sirocco."

'ABC Sirocco.

Bartlett & Snow Co C O 6200 Harvard Ave Cleveland & Ohlo "Bartlett-Snow" Brady Conveyors Corp 4244 Dempster St Skokle III Equipment Co 120 Central Ave Clark

Skokie III
Circo Equipment Co 120 Central Ave
(Rahway) N J
Cyclo-treli—See Research-Cottrell Inc
Delta-Rockwell—See Rockwell Mfg Co
DeVilbiss Metal Fabricators Co 17900
Rd Detroit 12 Mich "Hydro-Whirl"
Dynaclone—See W W Sly Mfg Co
Hammond Machinery Builders Inc
Douglas Ave Kalamazoo 54 Minn
Hydro-Whirl — See DeVilbiss Metal

cators Co
Ing Electric Ventilating Corp 2850 N Pulaski
Rd Chicago 41 Ill
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Kirk & Blum Mig Co 3120 Forrer St Cincinnati 9 Ohio

Macleod Co Box 452 Sharonville Ohio Mahon Co R C 6565 E 8 Mile Rd Detroit 34

Maremont Automotive Products Inc S Ash-land Ave at 16th St Chicago 8 Ill

Master-See Kindt-Collins Co Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J Pangborn Corp., 200 Pangborn Blvd., Hagers-

town Md

Research-Cottrell Inc P O Box 750 Bound Brook N J "Aerodyne" "Cyclo-trell" Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell" Ruemelin Mfg. Co., 3860 N. Palmer St., Mil-waukee, Wis.

Ruemelin Mfg. Co., 3860 N. Palmer St., Mil-waukee, Wis.
Schmieg Industries Inc 29330 Sherwood St Detroit 32 Mich Schneible Co Claude B P O Box 296 Roose-velt Park Annex Detroit 2 Mich Sly Mfg Co. W 4708 Train Ave Cleveland Ohio "Dynaclone" Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio Tabor Mfg. Co., 6225 Tacony St., Philadel-phia 35, Pa.

phia 35, Ph.
Torit Mfg Co Wainut & Exchange Sts St
Paul 2 Minn
Wheelabrator Corp 402 Byrkit St Mishawaka Ind "Wheelabrator Dustube"
Young & Bertke Co 2212 Buck St Cincinnati
22 Ohio

SYSTEMS FINISHING-See Systems, Finish-

SYSTEMS, Ignition (Complete)
(See also Coils, Ignition; also Distributors, Ignition; also Magnetos, Ignition; also Motors, Starting [Electric])

Auto-Lite—See Electric Auto-Lite Co Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Litte"
Fairbanks Morse & Co Beloit Wis
Keilogg Switchboard & Supply Co., 6650 S.
Cicero Ave., Chicago, III.
Mallory Electric Cerp 12416 Cloverdale Ave

Detroit 4 Mich Shurhit Products Inc 845 S Market St Wau-kegan III

SYSTEMS, Ignition (Emergency)

K-W-See Stan-Test Corp Stan-Test Corp 4630 W Harrison St Chicago 44 Ill "K-W"

American Monorail Co., 13107 Atnens Ave., Cleveland 7, Ohio.
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich Chainveyor Corp 5618 E Washington Blvå Los Angeles 22 Calif Chicago Tramrail Corp 1330 S Kostner Ave Chicago 23 Ill "Trak-Rak" Cleveland Crane & Engineering Co., 5866 E. 2837d St., Wickliffe, Ohio. "Cleveland Tramrail." Detroit Hoist & Machine Co. 8216 Morrow

Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich Harnischfeger Corp 4400 W National Ave Milwaukee Wis "P & H" Lamson Corp., 100 Lamson St., Syracuse 1,

N. Y Link-Belt Co Prudential Plaza Chicago 1 III Louden Machinery Co., 1102 West Ave., Fairfield, Iowa. P & H-See Harnischfeger Corp. Reading Crane & Hoist Corp 2140 Adams

P & H—See Harnischfeger Corp.
Reading Crane & Hoist Corp 2140 Adams
St Reading Pa
Richards-Wilcox Mfg. Co., Third St. & C. B.
& Q. R. R. Tracks, Aurora, Ill.
Sawin Machinery Co 49 Hancock St North

Quincy 71 Mass Shepard Niles Crane & Hoist Corp Mon-tour Falls N Y (Electric) Trak-Rak—See Chicago Tramrail Corp Whiting Corp 157th & Lathrop Sts Har-Trak-Whiting

T LATHES-See Lathes, T

TABLES, CIRCULAR SAW-See Machines, Sawing (Circular)

Hydro-Whirl — See DeVilbiss Metal Fabricators Co (Auto)

llen Electric & Equipment Co., 2101 Pitcher St., Kalamazoo 12F, Mich. (E Allen

Auto-Test Inc 600 S Michigan Ave Chicago 5 Electro Products Co., 445 E. 189th St., New

York 88, N Y.
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Kal-Equip Co 411 Washington St Otsego
Mich "Kal-Tach"

TACHOMETER, Engine Testing (Auto) -continued

King Electric Equipment Co 9115 Inman Ave King Electric additional Coleveland 5 Ohio Emerald St Philadel-phia 25 Pa (Electric) Niehoff & Co C E 4925 W Lawrence Ave

phia 25 Pa (Electric) Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 III Sun Electric Corp., 6323 Avondale Ave., Chi-cano 31, III. (Electric.) Weidenhoff Corp Algona Iowa Westach—See Westberg Mfg Co Westberg Mfg Co 144 S Coombs St Napa Calif "Westach"

TACHOMETERS, Speed

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Elec-

tricls
Aimquist Engrg Co Milford Pa
Amthor Testing Instrument Co 45 Van
Sinderen Ava Brooklyn 7 N Y
Barbour-Siockwell Co 206 Broadway Cambridge 35 Mans "Reliance" "Corbin"
Biddle Co James S 1316 Arch St Philadelphia 7 Pa "Frahm" "Jagabl"
Frietol Co Waterburg 96 Cons phia 7 Pa "Frahm" "Jagabi" Bristol Co Waterbury 20 Conn

Bristol Ca Waterbury 20 Conn Corbin—See Barbour-Stockwell Co Electro-Mechano Co 261 E Erie St Milwaukee 2 Wis (Electric) Esterline-Angus Co., P. O. Box 596, Indian-apolis 6, Ind. Frahm—See James S Biddle Co Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio

Ideal Industries, Inc., 1014 Park Ave., Syca-

more, Ill. more, III.
Jagabi-See James S Biddle Co
Jones-Motrola Corp., 432 Fairfield Ave.,
Stamford, Conn. "Jonea."
King-Seeley Corp 315 S First St Ann Arbor

King-Seeley Corp 315 S First St Ann Arbor Mich
Martindale Electric Co., 1340 Hird Ave., Cleveland 7 Ohlo (Swiss)
Metron Instrument Co 432 Lincoln St Denver 3 Colo (Electric)
Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 4: Pa O-Z—See O. Zernickow Co. Photocon Research Laboratories 421 N Altadena Dr Pasadena 3 Calif Reliance—See Barbour-Stockwell Co Standco—See Herman H. Sticht Co. Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago III (Electric and mechanical)
Sticht Co., Herman H., 27 Park Place, New York, N. Y. "Standco."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31. III.
Veeder-Root, Inc., 29 Bargeant St., Hartford 2, Conn.
Waltham Precision Instrument Co 221 Crescent St Waitham 74 Mass

2, Conn.
Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass
Westach—See Westberg Mfg Co
Westberg Mfg Co 144 S Coomba St Napa
Calif "Westach" (Truck)
Zernickow Co O 15 Park Row N Y 25 N Y
"O-Z"

TACKING MACHINES-See Machines Tack-

TAILGATE LOADERS, Truck (Elevating Tailgate) Truck-See Loaders,

TAIL LAMPS—See Lamps, Back-Up, Cowl. Dome, Fender, Tail, Parking, Running Board and Clearance

TAIL PIPES-See Pipes, Tail and Exhaust

TAKE-OFFS, Power

(Attachments to permit the use of the car motor for general power purposes)

Adaloy-See Adams Engrg. Co.
Adams Engrg Co 21711 Solon Rd Solon Ohio
"Adaloy" & "Adams"
Auburn—See Dana Corp
Automotive Gear Div Eaton Mfg Co S 8th
& O Sts Richmond Ind "Double Diamond"
Cemco Industries Inc Galion Ohio (Split

Products Inc 11 Buchanan St Chelsea Mich Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Couse Mfg., Inc., 300 Pacific St., Newark 4,
N. J.

Dana Cor, Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer "Auburn" "Spicer"
Detroit Harvester Co Paris Products Div
Paris Ky
Double Diamond—See Automotive Gear Div
Eaton Mfg Co
F. A. B. Mfg. Co., 1249 67th St., Oakland 8,
Calif. "Fabco—See F. A. B. Mfg. Co.

Funk Aircraft Co 1211 W 12th St Coffeyville TANKS, Quenching Kans Gar Wood Industries Inc Wayne Mich (With

st winch and crane)
Co 3000 W Montana St Milwaukee 1

wis endrickson Mfg Co 8001 W 47th St Lyons III ighway Trailer Co 405 E Fulton St Edger-Highway 7 Corp J H 4100 W 150th St Cleveland Holan

35 Ohio Lempco Products Inc 1949 Duning ford Ohio ford Ohio Mobile Power Co 400 Leland Pl Lansing Mobile "Tangen"

Mich "Tangen" Muncie Parts Mfg Co 2601 S Jefferson St

Muncie Parts Mfg Co 2501 S Jefferson St Muncie Ind Rockford Clutch Div., Borg-Warner Corp., 1219 18th Ave., Rockford, Ill. Spicer—See Dana Corp Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y. Stow Mfg Co 443 State St Binghamton N Y (Flavible shaft)

(Flexible shaft)
Tangen—See Mobile Power Inc
Truckstell Mfg 1487 Union Commerce Bidg
Cleveland 14 Ohio
Tulsa Winch Div of Vickers Inc 815 E First
St Tulsa 20 Okla
Twin Disc Clutch Co 1328 Racine St Racine

Wis Watson Co H S 1316 67th St Emeryville Calif "Watson-Brown-Line" Western Gear Corp 2600 E Imperial High-way Lynwood Calif

TANK BODIES-See Tanks, Trailer and Truck

ANK BODY EQUIPMENT — See Valves, Two-Way, Three-Way and Four-Way (Tank); also Vents, Tank Body TANK

TANK EQUIPMENT-See Caps, Gasoline

Kelsey-Hayes Co 3600 Military Ave Detroit 22 Mich (Vacuum) Stolper Steel Products Corp 300 Pilgrim Rd Menomonee Falls Wis

(S. AUTOMOBILE (FUEL SUPPLY)
Tanks, Gasoline and Diesel (Auto)

(For installation on motor propelled fire apparatus)

Safety Fire Extinguisher Co., 293 Seventh Ave., New York 1, N. Y. TANKS, FIRE-See Tanks, Chemical Fire

TANKS, Gasoline and Diesel (Auto)

American Safety Tank Co 3937 Main St Kansas City 11 Mo Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich. Chilton Metal Products Inc 300 Breed St

Chilton Wis Cutler Metal Products Co 1025 Line St Cam-den N J

den NJ ontaine Truck Equipment Co 1232 N 37th Pi Birmingham Ala (Auxiliary gasoline for

Fontaine Truck Equipment Co 1232 N 5th Pl Birmingham Ala (Auxillary gasoline for trucks)

K & B—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg. Co 3120 Forrer St Cincinnati 9 Ohio "K & B"

M D Parts Mfg Co 4395 E Olympic Blvd Los Angeles Calif (For Jeops)

Master Tank & Welding 1612 Singleton Blvd Dallas 2 Tex (Side-mounted)

Michigan Fleet Equipment Co 2350 Chicago Drive S W Grand Rapids Mich (Truck)

Mitchell Metal Products Inc 6591 Cedar Ave Cleveland 3 Ohio

Prior Products Inc 4828 Racell St Dallas Tex (Also combination tank tool chest and jack well for trucks; also step round cylindrical, etc., tanks.)

Snyder Tank Corp 3773 Lake Shore Blvd (P O Box 14) Buffalo 5 N Y (Truck)

Stolper Steel Products Corp 309 Pilgrim Rd Menomonee Falls Wis

Western Metal Specialty Dlv Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis

TANKS, LP-Gas Fuel (Truck and Trailer) Western Tank & Steel Corp 1302 Erskine St Lubbock Tex

TANKS, Metal Pickling

Mahon Co R C 6565 E 8 Mile Rd Detroit 34 Mich Rolock Inc 1850 Kings Highway Fairfield U S Galvanizing & Plating Equipment Corp 27-41 Heyward St Brooklyn N Y

Biggs Steel Fdry & Fabricating Co 1907
Bank St Akron 5 Ohio
FF-See Electric Furnace Co.
Electric Furnace Co 539 Wilson Ave Salem
Ohio "EF" "Elfurno"
Elfurno—See Electric Furnace Co.
Snarpsville Steel Fabricators, Inc., Sharpsville, Pa.

Products Inc 5490 Dunham Rd BedTANKS, Surge (For Radiators)
Stolper Steel Products Corp 300 Pilgrim Rd
Menomonee Falls Wis

TANKS, Trailer and Truck Body

American Body & Equipment Co Ft Worth-Dallas Pike Dallas Tex (Milk truck) American Steel Works 1211 W 27th St Kan-

as City Mo drews Industries Inc 7901 Alabama Ave

American Steel Works 1211 W 27th St Kansas City Mo
Andrews Industries Inc 7901 Alabama Ave
St Louis 11 Mo
Auto Truck Steel Body Co 3040 Carroll Ave
Chicago 12 Ill
Beall Pipe & Tank Corp 12005 N Burgard
St Portland 3 Ore
Boston Steel & Mfg Co 112 Bryant St
Maiden 48 Mass (Oil and gasoline truck)
Butler Mfg Co 7400 E 13th St Kansas City
26 Mo (Aluminum)
Certilied—See Staniess & Steel Products Co.
Champion Sheet Metal Co 2 Squires St Cortland N Y (Fuel truck to order)
Columbian Steel Tank Co., 1409 W, 12th St.,
Kansas City 7, Mo.
Cutler Metal Products Co., 1025 Line St.,
Camden, N. J.
Eaton Metal Products Corp., 13th St. &
Willis Ave Omaha 2 Nebr (Truck)
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill
Fruehauf Trailer Co., 10940 Harper Ave.,
Detroit 32, Mich.
Gary Steel Products Corp P O Box 440
Lynchburg Va (To order)
Gate City Steel Inc Boise 4000 Warm
Springs Ave Boise Idaho
General Body & Hoist Co Paris & Garvey
Sts Everett 49 Mass "Universal" (Truck)
Hell Co 3000 W Montana St Milwaukee 1
Wis "Hell Frigid-Lite" (Plastic; "Helliter" "Hell" steel)
Hews Body Co 87 St John St Portland 4 Me
Highway Trailer Co 405 E Fulton St Edger-

ter" "Heil" steel) Hews Body Co 87 St John St Portland 4 Me Highway Trailer Co 405 E Fulton St Edger-

Highway Trailer Co 405 E Fulton St Edgerton Wis (Trailer)
Industrial Steel Tank & Body Works Ine 2533 Fourth St Berkeley 10 Calif
Joplin Body & Trailer Inc 730 E b St Joplin Mo "Joplin Transporter"
Kaustine Furnace & Tank Corp Perry N Y Kennedy Tank & Mfg Co 833 E Sumner Ave Indianapolis 27 Ind (Truck)
Lang Co 267 W 1st South St Salt Lake City 10 Utah (Truck)
Lifetime—See Niles Steel Tank Co.
Master Tank & Welding 1612 Singleton Bivd Dailas 2 Tex "Time Saver" (Truck)
Morrison Bros Co 2401 Elm St Dubuque Iowa (Truck)
Niles Steel Tank Co., Niles, Mich. "Life-

Niles Steel Tank Co., Niles, Mich. "Life-

ctime."
Paceco—See Pacific Coast Engrg Co
Pacific Coast Engrg Co Oak & Clement Sts
Alameda Calif "Paceco" (Trailer to order)
Pennsylvania Furnace & Iron Co 316 Pine
St Warren Pa.
Portersville Stainless Equipment Corp Portersville Pa
Press' Sons Inc Jacob 501 W 33rd St
Chicago 16 Ill
Progress Mfg Co Oil Equipment Div
Arthur Ill (Steel aluminum and stainless
steel)

steel)
Providence Body Co 750 Wellington Ave
Cranston R I (Truck)
Quaker City Iron Works, Aramingo & Ontario Sta., Philadelphia 34, Pa. (Truck.)
Rock Hill Body Co W Main St Rock Hill
S C (Truck)
Sharpsville Steel Fabricators Inc Sharpsville
De (Truck)

(Truck) Stainless & Steel Products Co 1000 Berry Ave St Paul 14 Minn "Cartified" (Stain-less steel)

less steel)
Standard Steel Works Inc 16th & Howell Sts
North Kansas City 16, Mo.
Stoughton Cab & Body Co 408 E South St
Stoughton Wis (Milk)
Superior Metal Products Inc Branson & 18th

Superior Metal Products Inc Branson & 18th Sts Marion Ind (Truck, to order) Time-Saver—See Master Tank & Welding Truck Welding & Equipment Co., 739 Ninth Ave N Seattle 9 Wash (Truck) Universal—See General Body & Holst Co. Wenthworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Truck.) Wichita Body & Equipment Co 1926 N Broadway Wichita 12 Kans (Live fish transport) Wilco, Inc., 400 E. Decatur St., Kenton, Ohlo.

onio. Fright Co Thomas 185 Dey St Jersey City 6

TANKS, TRUCK and Truck Body TRUCK BODY-See Tanks, Trailer

TANTALUM CARBIDE—See Alloys, Cutting TAP SHARPENERS—See Machines, Grinding (Tap)

TAPE, Insulating

Anchor Packing Co 401 N Broad St Phila-delphia 8 Pa "Ankorite" Anchor Webbing Co P O Box 1624 Provi-dence R I "Awehco" Ankorite—See Anchor Packing Co Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I

Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I Armstrong Cork Co Industrial Div Lancaster Fa (Cork and rubber vibration damping) Awebco—See Anchor Webbing Co Behr-Cat—See Behr-Manning Co Behr-Manning Co 4457 Howe St Troy N Y "Behr-Cat" Bell Co 411 N Wolcott Ave Chicago 22 Ill

Flare "Flare"
Better Monkey Grip Co 5320 Harry Hines
Blvd Dallas 22 Tex "Monkey Grip" (Sole
distributors Monkey Grip Sales Co 5320
Harry Hines Blvd Dallas 22 Tex)
Black Diamond—See M W Dunton Co
Boston Woven Hose & Rubber Co Cambridge
Mass (P O Box 1071 Boston 3 Mass) "Bull
Doe"

Bull Dog-See Boston Woven Hose & Rub C-D-F-See Continental - Diamond Fibre

Corp Camei—See H. B. Egan Mfg. Co. Chase & Sons Inc 26 Spruce St North Quincy

Camei See B. B.
Chase & Sons Inc 26 Spruce St North Summer Mass
Connecticut Hard Rubber Co 407 East St
New Haven 9 Conn "Temp-R-Tape"
Continental-Diamond Fibre Corp Newark 10
Del "C-D-F"
Continental Rubber Works 1946 Liberty St
Erie Pa "Vitalie"
Crown Products Co 5722 S 77th St Ralston
Neb
Midland Mich "Silastic"

Erie Pa "Vitair."
Crown Products Co 5722 S 77th St.
Neb
Dow Corning Corp Midland Mich "Silastic"
Dryden Rubber Div., Sheller Mfg. Corp., 1014
S. Kildare Ave., Chicago 24, Ili.
Duncon Co M W 7 Goff St Frovidence 3 R I
"Black Diamond" "Dunton"
Durkee-Atwood Co 215 Seventh St N E
Minneapolis 13 Mich
Dutch Brand—See Johns-Manville Dutch
Drand Div R Muskogee, Okla.

Egan Mf

FOS-See Seamless Rubber Co

FOS—See Seamless Rubber Co
Fasthoid—See Mitchell-Rand Mfg Corp
Firestone Tire & Rubber Co 1200 Firestone
Flarkway Akron Ohio
Flare—See Beit Co.
4-Star—See Johns-Manville
Goodrich Industrial Products Co B F 500 8
Main St Akron 18 Ohio
Gripper—See Rawhide Products Co
Gross Mfg Co 1711 California St Monrovia
Calif

Calif

Cami laartz-Mason Inc Mechanical Products Div 270 Pleasant St Watertown 72 Mass "Stronghold" "Paramount" & "Para-72 Ma-"Para-

I R I deal Industries Inc 1014 Park Ave Sycamore III mp—See Superior Insulating Tape Co Irvington Varnish & Insulator Div of Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington I1 N J "Temflex"

J-M—See Johns-Manville Corp Johns-Manville Curb Dutch Brand Div 7800 Woodlawn Ave Chicago 19 III "Dutch Brand" Jomanco—See Johns-Manville Corp Kendall Co Polyken Sales Div 309 W Jackson Blvd Chicago 6 III "Polyken"
Kelen Kut—See Superior Insulating Tape Co Miller Rubber Co Div of B F Goodrich Co 500 S Main St Akron Ohio Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "Scotch" Mitchell-Rand Mfg Corp 51 Murray St New York N Y "Fasthold" "Paruba" "Shield" Monkey Grip—See Better Monkey Grip Co. Mystik Adhesive Products Inc 2635 N Kildare Ave Chicago 39 III Paramount—See Haartz-Mason Inc Paraplastic—See Haartz-Mason Inc Paruba—See Mitchell-Rand Mfg Corp Permacel-LePage's Inc U S Highway #1 New Brunswick N J Plymouth Rubber Co 59 Revere St Canton Mass "Plymouth" & "Slipknot" Polyken—See Kendall Co Rawhide Products Co., Michigan Ave., Kenliworth, N. J. "Gripper."

S. I.—See Superior Insulating Tape Co. Scotch—See Minnesota Mining & Mfg Co Seamless Rubber Co Industrial Tape Div 253 Hallock Ave New Haven 3 Conn "FOS" Shield—See Mitchell-Rand Mfg Corp Sllastic—See Dow Corning Corp

Slipknot—See Plymouth Rubber Co Southern Weaving Co 4 Evans St Greenville

S C Stronghold—See Haartz-Mason Inc Superior Insulating Tape Co 3100 Lambdin Ave., St. Louis 15, Mo. "Imp," "S. I," "Kleen Kut." Temflex—See Irvington Varnish & Insulator

Div Temp-R-Tape-See Connecticut Hard Rub-

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

Vitalic-See Continental Rubber Works Walker Bros River & End Siz Conshohocken
Pa "Walker of Conshohocken"
Wrap-Rax—See Hanson-Van Winkle-Munning Co.

TAPE, Masking

American Tape Co 4058 Beaufait Ave De-troit 7 Mich "Pres-Stix" Anchor Brand—See Continental Tapes

Anchor Brand—See Continuing Corp Behr-Cat—See Behr-Manning Corp 1457 Howe St Troy N Y Behr-Manning Corp 4157 Howe St Troy N Y
"Behr-Cat"
Blue Cross-See Hampton Mfg Co
Carborundum Co Buffalo Ave Niagara Falls

Blue Cross—See Hampton Mfg Co Carborundum Co Buffalo Ave Niagara Falls N "Flexbac" Continental Tapes P O Box 256 Cayce S C "Anchor Brand" Dutch Brand—See Johns-Manville Dutch Brand Dly

Eastman Kodak Co 343 State St Rochester 4 N V

Eastman Rodak Co 343 State St Rochester 4 N Y
Flexbac—See Carborundum Co
FOS—See Seamless Rubber Co
Hampton Mfg Co Industrial Tape Div 111
Cedar St New Rocheile N Y "Blue Cross"
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 III "Dutch Brand"
Kendall Co Polyken Sales Div 309 W Jackcon Blvd Chicago 6 III "Polyken"
Minnesota Mining & Mfg Co 900 Fauquier St
St Paul 6 Minn "Scotch"
Mystik Adhesive Products Inc 2635 N Kildare Ave Chicago 39 III
Permacel-LePage's Inc U S Highway #1
New Brunswick N J
Plask—See Servwell Products Co.

New Brunswick N J
Plask—See Servweil Products Co.
Polyken—See Kendall Co

Polyken—See Kendall Co Pres-Stix—See American Tape Co Scotch—See Minnesota Mining & Mig Co Seamless Rubber Co Industrial Tape Div 253 Hallock Ave New Haven 3 Conn "FOS" Servweil Products Co., 6515 Euclid Ave., Cleveland 3, Ohlo. "Plask." Shuford Mills Inc 15th St & Highland Ave N E Hickory N C "Shurtape" Shurtape—See Shuford Mills Inc

"Stronghold" "Paramount" & "Paraplastic"
Hanson-Van Winkle-Munning Co Matawan
N J "Wrap-Rax"
Hi-Value—See Johns-Manville
Hope Webbing Co P O Box 1495 Providence
1. R I Geal Industries Inc 1014 Park Ave Sycamore
Ill See Superior Insulating Tang Co. Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Tapgun" Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "Universal" Tapgun—See Black & Decker Mfg Co Thor Power Tool Co 175 State St Aurora III United States Electrical Tool Co 3620 Llewelpr St Cincinnati 23 Ohio Universal—Chicago Pneumatic Tool Co

TAPPERS, Portable Pneumatic

CP—See Chicago Pneumatic Tool Co Chicago Pneumatic Tool Co 6 E 4th St N Y 17 N Y "CP" Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich

TAPPET SCREWS-See Screws, Valve Tappet

Accurate Products Inc 135 N Spring St Indianapolis Ind Allied Precision Products 600 E San Chris-topher Drive Dunedin Fla "Skinner" (Hy-draulic and mechanical) Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.

N. T.
Chicago Screw Co Div of Standard Screw
Co 2701 Washington Blvd Bellwood III
(Hydraulic and mechanical)
Diesel Equipment Div General Motors Corp
2100 Burlingame Ave S W Grand Rapids
2 Mich "No-Lash" (Hydraulic)

Eaton Mfg Co Saginaw Div 1000 Rust St Saginaw Mich (Also hydraulic and selfadjusting)

Signaw after (Also Nydraulic)
Ertel Mig Co 2045 Martindale Ave Indianapolis 7 Ind
Ertel Products Co Repl Div of Ertel Mig
Corp 1402 E 20th St Indianapolis 7 Ind
Highland Machine Co 3215 Superior Ave
Cleveland 14 Ohio
Johnson Products Inc 1185 E Keating Ave
Muskegon Mich (Also hydraulic)
No-Lash—See Diesel Equipment Div
Novamatic—See Thompson Products Inc
Skinner—See Allied Precision Products
Thompson Products Inc 28555 Euclid Ave
Cleveland 17 Ohio "Novamatic" (Automatic self-contained)
Wohlert Corp., 700 E. Grand River Drive,
Lansing 5 Mich (Hydraulic and mechanical)

Wolverine Gear & Parts Co Osseo Mich

TAPPING MACHINES-See Machines, Tap-

TAPS. Collapsible

Consolidated Machine Tool Co 565 Blossom Rd Rochester 10 N Y "Modern" Geometric Horton Div United-Greenfield Corp Blake & Valley Sts New Haven 15

Machine Co Fifth & Church Sts Landis

Landis Machine Co Fifth & Church Sts Waynesboro Pa Modern—See Consolidated Machine Tool Co Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio Namco—See National Acme Co. National Acme Co., 170 E. 131st St., Cleveland \$, Ohio. "Namco." R-S—See Rickert-Shafer Co. Rickert-Shafer Co., 612 W. 11th St., Erie, Pa. "R-S."

TAPS, Hand and Machine

(See also Taps, Collapsible)
Bath & Co John 18 Grafton St Worcester

N Mass
Baly State Tap & Die Co Chauncy St Mansfield Mass
Besly-Welles Corp 20 N Wacker Drive Chicago 6 Ill

cago 6 "Il-See Snap-On Tools Corp Brubaker & Bros Co W L Millersburg Pa Butterfield—See Union Twist Drill Co Butterfield Div

terfield Div
Card Div Union Twist Drill Co S W Rumford Ave Mansfield Mass
GTD—See Greenfield Tap & Die Div
Geometrie Horton Div United-Greenfield
Corp Blake & Valley Sts New Haven 15
Conn (Solid adjustable)
Greenfield Tap & Die Div United-Greenfield
Corp Sanderson St Greenfield, Mass "GTD"
HW—See Hanson-Whitney Co
Hanson-Whitney Co 169 Bartholomew Ave
Hartford 2 Conn "HW"
Hy-Pro Tool Co 461 Mt Pleasant St New
Bedford Mass
Jarvis Corp Middletown Conn

Jarvis Corp Middletown Conn Keystone Reamer & Tool Co., Millersburg

Keystone Reamer & Average Resident Resi

Union Twist brill Co., Butterfield Div., Mass.
Union Twist Drill Co., Butterfield Div.,
Derby Line, Vt. "Butterfield."
Vermont Tap & Die Corp., Main & Grove
Sta., Lyndonville, Vt.
Whitaker Mfg. Co., 409 S. Green St., Chi-

TAXIMETERS

Ohmer-See Rockwell Mfg Co Rockwell Mfg Co Register Div 400 N Lex-ington Ave Pittsburgh 8 Pa "Ohmer" United States Taximeter Co 514 W 54th St New York 19 N Y U S "Weisinger" Weisinger—See United States Taximeter Co

TERMINALS, Storage Battery

Clipper—See Walker Bros Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"

TERMINALS, Storage Battery-continued

Decrow Engineering Corp Main St Middle-port N Y "Million Dollar" Everhot Products Co 2001 W Carroll Ave Chicago 12 III

Chicago 12 Ill
Gould-National Batteries Inc Industrial Div
467 Calhoun St Trenton 7 N J
Grand Haven Brass Foundry 230 N Hopkin
St Grand Haven Mich
Guaranteed Parts Co Seneca Falls N Y
(Solderless)

(Solderless)
Lightnin—See R J Loock & Co
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Million Dollar—See Decrow Engineering Corp.
Monarch Insulated Wire Co P O Box 35 Tea-

neck N Alumiaum & Brass Foundry, In V. Elm St., Independence, M

1131 W. Elm St., Independence, Mo. (Brass.)
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
Nimco—See National Ignition Mfg Co Ohio Mfg Co 924 S Theresa Ave St Louis 3 Mo.

Packard Electric Div General Motors Dana

Mo
Packard Electric Div General Motors Dana
St Warren Ohio
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal
Bidg No 88 Brooklyn 32 N Y
Realflex Products Co 335 38th St Brooklyn 32
N Y "Realflex" "Speedway" "Yankee"
Sliver Beauty—See Triple-A Specialty Co
Sorensen Mfg Co P 32-31 67th St Woodside
77 N Y
Speedway—See Realflex Products Co
Standard Motor Products Inc 37-18 Northern Bivd Long Island City L I N Y
Triple-A-Specialty Co 2835 N Western Ave
Chicago 18 Ill "Triple-A" "Sliver Beauty"
Victor Instrument Mfg Co 33 W 60th St
New York 23 N Y
Walker Bros River & End Sts Conshohocken
Pa "Walker of Conshohocken" "Clipper"
Whitaker Cable Corp., 1301 Burlington Ave.,
North Kansas City 16, Mo.
Wiry Joe—See Crescent Co
Yankee—See Realflex Products Co

TERMINALS, Wire

AC The Electronic Div of General Motors 1300 N Dort Highway Flint 2 Mich & AMP Inc Harrisburg Pa (Solderless) Ark-Lee Switch Corp 51 Water St Water-town 72 Mass Auto-Lite-See Electric Auto-Lite Co Barcy-Nicholson Co 8100 Joy Rd Defroit 4

Mfg Co 4647 W Van Buren St Chicago Corp Omaton Div Norwalk Conn urndy Corp "Hylugs" "Inper—See Walker Brown 20 Old Company

Cole-Hersee Co., 20 Old Colony Ave., Boston

27. Mass Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich ETC—See Electrix Terminals & Connectors Inc

Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Electrix Terminals & Connectors Inc 990 E 67th St Cleveland 3 Ohio "ETC" Everlock—See Thompson-Bremer & Co

Hill Nut Co 2620 W Flournoy St Chleago Hylugs--See Burndy Corp

Inco-See Inter-Continent Mfg. Co
Inter-Continent Mfg Co 117 E 13th St Chicago 5 Ill "Imco"

em Mfg Co 20-21 Wagaraw Rd Fair Lawn

Monarch Insulated Wire Co P O Box 35 Tea-

neck N J
National Ignition Mfg. Co., 521 W. 23rd St.,
New York 11, N. Y. "Nimco."
Nimco—See National Ignition Mfg. Co.
Ohio Mfg Co 924 S Theresa Ave St Louis 3
Mo

Mo
Packard Electric Div General Motors Dana
St Warren Ohio
Patton-MacGuyer Co., Baker St. & Virginia
Ave., Providence 5, R. I.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.

Preferred Electric & Wire Co., Bush Ter-minal Bidg. No. 8, Brooklyn 32, N. Y.

Rajah Co 35 Verona Ave Newark 4 N J
Realflex Products Co 335 38th St Brooklyn 32
N Y "Realflex" "Speedway" "Yankee"
Richards Mfg Co 20 E Herman St Philadelphia 44 Pa
Shakeproof Div of Illinois Tool Works St
Charles Rd Eigin Ill (Plain and locking)
Sherman Mfg. Co., H. B., 22 Barney St., Battie Creek, Mich.
Silver Beauty—See Triple-A Specialty Co
Speedway—See Realflex Products Co
Standard Motor Products Inc 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Stimpson Co., Edwin B., 70 Franklin Ave.,
Brooklyn, N. Y.
Thompson-Bremer & Co 228 N La Salle St
Chicago 1 Ill "Everlock"
Triple-A-Specialty Co 2335 N Western Ave
Chicago 18 Ill "Triple-A" "Silver Beauty"
Vaco Products Co., 317 E. Ontario St., Chicago 11 Ill "Lynn" (Solderless)
Victor Instrument Mfg Co 33 W 60th St
New York 23 N Y
Wade Electric Products Co., 211 N. Jacobs
St., Sturgis, Mich.
Walker Bros River & End Sts Conshohocken

Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper" Whitaker Cable Corp., 1301 Burlington Ave. North Kansas City 16, Mo. Yankee—See Realflex Products Co Zierick Mfg Cyrp Beechwood & Rockdale Aves New Rochelle N Y

TESTERS, Cylinder Head Volume Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.

TESTERS, Diesel Engine

lis-Chalmers Mfg Co Engine Mater Handling Div 1135 S 70th St Milwaukee Material

Wis
Bacharach Industrial Instrument Co 200 N
Braddock Ave Pittsburgh 8 Pa
Diesel Control Corp 228 N Marine Ave Wilmington Calif "Unitest"
Kent-Moore Organization Inc 1501 S Jackson Stidh Unitest—See Diesel Control Corp

TESTERS, ELECTRICAL—See Instruments, Electrical Circuit Testing; also Stands, Elec-tric Test

TESTERS, ENGINE—See Analyzers, Engine and Electrical Equipment; also Dynamometers, Engine Testing

TESTERS, Fuel Gage

Hanson Co Harvey E Lake Blvd & Commer-cial St Paw Paw Mich Telectro Industries Corp 35-16 37th St Long Island City 1 N Y

TERS, GEAR — See Instruments, G Testing; also Machines, Testing (Gear)

TESTERS, METAL—See Instruments, M Testing; also Machines, Testing (Metal) TESTERS, SPRING—See Machines, Testing (Spring); also Tools, Spring Testing

TESTERS, Torque (Wrench)

Jo-Line Tools Inc 8442 Otis St South Gate 30 Calif "Jotest" Sturrevant Co P A Addison III

TESTERS, Valve (Portable) (For testing seating of valve before assembly into engine)

Whittington Pump & Engrg Corp 1126 Pros-pect St Indianapolls 3 Ind "Whitteo"

TESTING PLUGS, ADJUSTABLE—See Plugs, Testing (Adjustable)

Minneapolis-Honeywell Regulator Co Indus-trial Div Wayne & Windrim Ave Philadel-

THERMOMETERS, RADIATOR-See Gages, Water Temperature Indicating

THERMOMETERS, Recording and Indicating

(See also Pyrometers) (see auso Pyrometers)

Bacharach Industrial Instrument Co 200 N

Braddock Ave Pittsburgh 8 Pa

Barber-Colman Co 1300 Rock St Rockford

Ill "Wheelco"

Bristol Co Waterbury 20 Conn

Dillon Co W C 14620 Keswick St Van Nuys

Calif

Calif Electric Auto-Lite Co Toledo 1 Ohio Foxboro Co., Neponset Ave., Foxboro, Mass.

Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery indicating)

ting)
ois Testing Laboratories, 420 N. LaSalle
ois Totogo, Il.
our Co., 4800 S. St. Louis Ave., Chicago

St., Chicago, III.
Kocour Co., 4800 S. St. Louis Ave., Chicago
32, Ill. (Indicating.)
Lewis Engineering Co., 339 Church St.,
Naugatuck, Conn.
Max-Min-See Weston Instruments Div of
Daystrom Inc
Minneapouis-Honeyweil Regulator Co Industrial Div Wayne & Windrim Aves Philadeiphia 44 Pa
Powers Regulator Co 3400 Oaktown St Skokie

Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo." (Indicating.)
Princo-See Precision Thermometer & Instrument Co. Rochester Mg. Co., 100 Rockwood St., Rochester 10, N. Y. Taylor Instrument Companies, 95 Ames St., Rochester I, N. Y. United States Gauge Div. of American Machine & Metals Inc Clymer Ave Sellersville Pa.

wille Pa Weston Instruments Div of Daystrom Inc 614 Freiinghuysen Ave Newark 12 N J "Max-Min" Wheelco—See Barber-Colman Co

THERMOMETERS, Vulcanizer

Bristol Co Waterbury 20 Conn Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

THERMOSTATIC METALS - See Bi-Metal,

THERMOSTATS, Heater

B & B Superstats—See Bishop & Babcock Mfg Co Barber-Colman Co 1300 Rock St Rockford III Bishop & Babcock Mfg Co 4901 Hamilton Ave N E Cleveland 14 Ohio "B & B Su-Bishop & Ave N E

perstats"
Bridgeport Thermostat Div Robertshow-Fulton Controls Co 115 Hill St Milford Conn
Dole Valve Co 6201 Oakton St Morton Grove

Fulton Sylphon Div Robertshaw-Fulton Con-

Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1
Tenn "Sylphon Autostat"
Harrison Radiator Div., General Motors Corp., Washburn & Wainut Sts., Lockport, N. Y.
Honeywell's Moduflow — See Minneapolis-Honeywell Reg Co
Klixon—See Spencer Thermostat Co.
Minneapolis-Honeywell Regulator Co Transportation Div 2753 4th Ave S Minneapolis 8
Minn "Honeywell's Moduflow" (Control systems, for buses)
Ranco Inc 601 W 5th Ave Columbus 1 Ohio Spencer Thermostat Co., 34 Forest St., Attleboro, Mass. "Kilxon." (To order.)
Sylphon Autostat—See Fulton Sylphon Div., Robertshaw-Fulton Controls Co.
United Electric Controls Co., 85 School St., Waterdown 72, Mass.
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill

THERMOSTATS. Water Circulating (See also Shutters, Radiator)

Ave N E Cleveland 14 Ohio
Bridgeport Thermostat Div RobertshawFulton Controls Co 115 Hill St Milford
Conn

Conn
Detroit Controls Corp 5900 Trumbull Ave
Detroit 8 Mich "Vernatherm"
Divert-A-Flo-See Hawk Tool & Engrg. Co.
Dole Valve Co 6201 Oakton St Morton Grove

Flexon—See Flexonics Corp Flexonics Corp 1315 S 3rd Ave Maywood Ill

"Flexon" Fulton Sylnhon Div. Robertshaw-Fulton Controls Co., W. Cumberland Ave., Knoxville 1, Tenn. "Sylphon," "Sylphon Autostat."

HaDees Heater Div of Gabriel Co 1911 Harrison Ave Rockford III
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport

Hawk Tool & Engrg Co 20 W Washington St Clarkston Mich "Divert-A-Flow" (Sole distributors Nason Co 20 W Washington St Clarkston Mich) Minneapolis-Honeywell Regulator Co Transportation Div 2753 4th Ave S Minneapolis 8 Minn (Truck)
Standard-Thomson Corp Clifford Mfg Co Div 152 Grove St Waltham 54 Mass

Syiphon—See Fulton Syiphon Div Robert-shaw-Fulton Controls Co Syiphon Autostat—See Fulton Syiphon Div., Robertshaw-Fulton Controls Co. United Electric Control Co 85 School St Watertown 72 Mass Vernatherm—See Detroit Con

THIRD AXLE UNITS-See Axle Units, Third, THREAD CUTTING MACHINES—See Ma-

THREAD GRINDING MACHINES—See Machines, Thread Grinding

THREAD INSERTS - See Inserts, Screw

THREAD MILLING MACHINES - See Ma-chines, Milling (Thread)

THREAD ROLLING DIES-See Dies, Thread Rolling

THREADING UNITS, TRANSFER MACHINE
—See Units, Threading (Transfer Machine) TIE RODS-See Connections, Steering

TIGHTENERS, Chain (Industrial)

Link-Belt Co Prudential Plaza Chicago Ill TIMING CHAINS-See Chains, Timing (Auto) TIMING INSTRUMENTS—See Instruments,

TIN PLATING MACHINES FOR PISTONS— See Machines, Plating

TIP-OVER SWITCHES—See Switches, Igni- TOOL BENCHES—See Stands, Portable Tool tion (Cut-off)

TIRE CORD-See Cord, Tire

TIRE GAGES-See Gages, Chuck; also Gages, TOOL

IRE INFLATORS—See Com Gages, Chuck (Tire Inflating) Compressors, Air;

TIRE LOCKS -IRE LOCKS — See Locks, Tire and Wheel (Spare and Running)

TIRE, and TUBE CURING PRESSES—See Presses, Tire and Tube Curing

TIRE VALVES, CAPS AND CORES—See Caps, Tire Valve; also Valves, Tire; also Valve Cores (Tire)

Norwalk—See Armstrong-Norwalk Corp Pennsylvania Tire Co P O Box 377 Mansfield Ohio

Ohio Co 35 E Wacker Drive Chicago 1 Ill Schenuit Rubber Co Frank S Railroad & Union Aves Baltimore 11 Md Selberling Rubber Co., Akron, Ohio. Thorobred—See Dayton Rubber Mfg. Co. U. S. Royal—See United States Rubber Co. United States Rubber Co. Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Gillette," "U. S. Royal."

TIRES, Solid

Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio Goodrich Tire Co B F 500 S Main St Akron

Goodyear Tire & Rubber Co., E. Market St., Akron 16. Ohio. Akron 16, Ohio. United States Rubber Co., Rockefeller Cen-ter, 1230 Sixth Ave., New York, N. Y

TOGGLE CLAMPS-See Clamps, Toggle

TOILETS, Bus and Trailer

Cunningham Son & Co James 33 Litchfield St Rochester 8 N Y (Trailer) Wickland Mfg. Co., 610 S. Arroyo Parkway, Pasadena 1, Calif. "Wickland-Sierra."

TINNING COMPOUNDS - See Compounds, TONGS, Lifting (Automatic, For Material Handling)

Heppenstall Co 4620 Hatfield St Pittsburgh 1

TOOL BOXES-See Boxes, Tool

CONTROL UNITS-See Units, Tool Control

TOOL HOLDERS-See Holders, Tool

TOOLMAKERS' VISES-See Vises, Toolmakers

OOL RACKS-See Racks, Stock, Tire and Tool (Metal) TOOL

TOOL STEEL-See Steel, Tool TOOLS, BENDING (TUBE)-See Benders, Tube

TIRES, Pneumatic

Armstrong Rubber Co 475 Elm St West Haven 16 Conn Armstrong-Norwalk Rubber Corp 20 Glover Ave Norwalk Conn "Armstrong" & "Nor-walk"

Ave Norwalk Conn "Armstrong" & "Norwalk"

Brunswick—See B F Goodrich Tire Co
Century—See Mansfield Tire & Rubher Co. Cooper Tire & Rubher Co., Lima & Western
Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T.
Tracks, Grand Rapids I, Mich.
Dayton Rubber Co., Fuller Ave. & G. T.
Tracks, Grand Rapids I, Mich.
Dayton Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Dunlon Tire & Rubber Corp., Sheridan
Dr & River Rd Buffalo S N Y
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio
Fisk Tire Co Div of U S Rubber Co 1230 Ave
of the Americas New York 20 N Y
Gates Rubber Co., Englewood &
Holmes Ave., Akron, Ohio.
Gillette—See United States Rubber Co.
Goodrich Tire Co B F 500 S Main St. Akron
18 Ohio "Brunswick" "B F Goodrich"
"Hood"
Goodyear Tire & Rubber Co., E. Market St.,
Goodgodyear Tire & Rubber Co., E. Market St.,

"Hood" Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio Hood—See B F Goodrich Tire Co Inland Rubber Corp 515 Newman St Mans-field Ohio

Kelly-Springfield Tire Co P O Box 300 Cum-

Kelly-Springheid The Coberland Md
Laher Tire & Rubber Co of Calif 26th &
Magnolia Sts Oakland Calif "Mustang"
Lee Rubber & Tire Corp., Conshohocken, Pa
McCreary Tire & Rubber Co., Box 700,

McCreary Tire & Rubber Co., DOX 1007, Indiana, Pa.
Mansfield Tire & Rubber Co. 515 Newman St Mansfield O'n "Century" "Mansfield"
Miller Rubber Co., Div. of B. F., Goodrich Co., 500 S. Main St., Akron, Ohlo.
Mohawk Rubber Co., 1235 Second St., Akron E. Ohlo.

Mustang—See Laher Tire & Rubber Co of

TOOLS, Boring

Abrasive Dressing Tool Co 14528 2nd Blvd Detroit 3 Mich "Red Band" (Diamond) Armstrong Bros. Tool Co., 5200 W. Arm-strong Ave., Chicago 36, Ill. Bullard Co 286 Canfield Ave Bridgeport 9

Casler-See Oneida Machine Tool Corp

Casier—See Oneida Machine Tool Corp
Continental—See Ex-Cell-O Corp
Davis Boring Tool Div. of Giddings & Lewis
Machine Tool Co., 475 S. Seymour St.,
Fond du Lac, Wis.
Erickson Tool Co 2309 Hamilton Ave Cleveland 14 Ohio "Erickson-State"

Ex-Cell-O Corp Continental Tool Works Div
1200 Oakman Bivd Detroit 32 Mich "Continental"
Gairing Tool Co 21221 Hoover Rd Detroit 32
Mich

Mich General Electric Co Metallurgical Products Dept 11777 E Eight Mile Rd Detroit 32 Mich (Cemented carbide) Goddard & Goddard Co., 1280 Burt Rd., De-

Mich (Cemented carbide)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Heller Tool Co Heller Dr Newcomerstown
Ohio (Carbide bits)
Ingersoll Milling Machine Co Rockford III
Jarvis Corp Middletown Conn
Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide)
McCrosky Tool Corp., S. Main St., Meadville,
Pa. "McCrosky Jack-Lock."
Madison Mfg Co 1713 7 8t Muskegon Mich
Metal Carbides Corp 107 E Indianola Ave
Youngstown 7 Ohio "Tailde"
National Tool Co 11200 Madison Ave Cleveland 2 Ohio

National Tool Co 11200 Madison Ave Cleveland 2 Ohio
Oneida Machine Tool Corp 2600 E Walnut St
Oneida N Y "Casler"
Pipe Machinery Co 29100 Lakeland Bidg
Wickliffe Ohio
Production Tool Co. of America, 6474 Le
Grand Ave. Detroit 11, Mich.
Red Band—See Abrasive Dressing Tool Co
TCT—See Tungsten-Carbide Tool Co.
Talide—See Metal Carbides Corp
Tantung—See Vascoloy-Ramet Corp
Tungsten-Carbide Tool Co 26250 W 7 Mile
Rd Detroit 19 Mich "TCT"
V-R—See Vascoloy-Ramet Corp

Vascoloy-Ramet Corp 800 Market St Wau-kegan III "Tantung" (Cast alloy; "Vasco-loy-Ramet" & "V-R" cemented carbide) Viking Tool Co 1000 Nichols Rd Shelton

Conn
Wendt-Sonis Co.
Wendt-Sonis Co 10th & Collier Sts Hannibal
Mo "W-S" (Carbide tipped)
Willey's Carbide Tool Co 1340 W Vernor
Highway Detroit 1 Mich

TOOLS, BROACHING-See Broaches

TOOLS, CONNECTING ROD ALIGNING — See Jigs, Connecting Rod Aligning

TOOLS, Cutting

Abrasive Dressing Tool Co 14528 2nd Bivd Detroit 3 Mich "Red Band" (Diamond) Allegheny Ludium Steel Corp 2020 Oliver Bidg Pittsburgh 22 Pa Allied Tool Products Inc 2105 W Auer Ave Milwaukee 6 Wis (Carbide tipped) Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich (Carbide tipped) Barber-Colman Co 1200 Rock St Rockford Ill (Carbide) Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Carbide lathe cutters, for brake drums.)
Besly-Welles Corp 20 N Wacker Dr Chicago 6 Ill (Carbide tipped)
Brown & Sharpe Mfg Co 236 Promenade St Providence 1 R I
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (Bits)

10 Ill (Bits)
Citco—See Cleveland Industrial Tool Co
Cleveland Industrial Tool Co Box \$4 Chardon
Ohio "Citco" (Solid copper diamond)
Cleveland Twist Drill Co 1242 E 49th St
Cleveland 14 Ohio "No-Max" (High speed
and cobalt)
Continental—See Ex-Cell-O Corp., Continental Tool Works Div.
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio.
Crafts Co., Arthur A., 603 Newbury St., Kenmore Square, Boston 15, Mass. (Tungsten
carbide: also diamond.)
Crobalt Inc 2800 S State St Ann Arbor Mich
(Cast alloy)

(Cast alloy)
Davis Boring Tool Div. of Giddings & Lewis
Machine Tool Co 475 S Seymour St Fond
du Lac Wis
Desmond-Stephan Mfg. Co., 317 S. Wainut Urbana, Ohio. t Boring Bar Co., 690 E. Fort St., De-

Detroit Boring Bar Co., 690 E. Fort St., Detroit 26, Mich.
Diamond Drill Carbon Co 244 Madison Ave
New York 16 N Y (Diamond)
Do All Co 254 N Laurel Ave Des Plaines Ili
Dow Mechanical Corp Thompsonville Conn
"Du-Bits" (Bits)
Du-Bits-See Dow Mechanical Corp
Ex-Cell-O Corp Continental Tool Works Div
1200 Oakman Blvd Detroit 32 Mich "Continental" (High speed steel and carbide tipped)
Firthite—See Firth-Sterling Steel Co
Firth-Sterling Steel Co McKeesport Pa
"Firthite" (Sintered carbide)
Ford Mfg Co M A P O Box 628 Davenport Iowa (Carbide)

"Firthite" (Sintered carbide)
Ford Mig Co M A P O Box \$28 Davenport
lowa (Carbide)
Gairing Tool Co 21221 Hoover Rd Detroit 32
Mich

Mich General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich (Cemented carbide) Haynes Stellite Co 725 S Lindsay St Kokomo

Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Heller Tool Co Heller Dr Newcomerstowa Ohio (Carbide)
Highland Carbide Tool Co., P. O. Box 72, irwin, Pa.
illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Illinois Coangle Company of the Coangle C

Maxwell Co 493 E Fifth St Ashtabula Ohio (Bits)
Metal Carbides Corp 107 E Indianola Ave
Youngstown 7 Ohio "Tailde"
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
National Twist Drill & Tool Co Rochester
Mich (Carbide tipped)
Nobur Mfg Co 6860 Farmdale Ave North
Hollywood Calif (Deburring)
No-Max—See Cleveland Twist Drill Co
O K Tool Co Milford N H
Portage Double Quick Inc 1033 Sweitzer Ave
Akron Ohio "Manchester" (Carbide;
"Sure-Bore" bits)

TOOLS, Cutting-continued

Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. Red Band—See Abrasive Dressing Tool Co Reltool Corp 4540 W Burnham St Milwaukee

46 Wis Schrillo Aero Tool Engrg Co 8715 Melrose St Los Angeles 46 Calif Severance Tool Industries Inc 711 Iowa Rd Saginaw Mich Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"

Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"

Spartan Saw Works, Inc., 152 Fisk Ave.. Springfield 7, Mass. (Bits.)

Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y (Diamond)

Stanworth Tool Mfg Corp P O Box 31 Lebanon Ind

Sure-Bore-See Fortage Double Quick Inc T.C.T.—See Tungsten Carbide Tool Co Talide-See Metal Carbides Corp

Tantung-See Vascoloy-Ramet Corp

Tungsten Carbide Tool Co 26250 W 7 Mile Rd Detroit 19 Mich "TCT" (Tungsten carbide, Tantalum and Titanium)

Union Twist Drill Co., Monroe St., Athol, Mass. (Carbide.)

Vascoloy-Ramet Corp 800 Market St Waukegan Ill "V-R" & "Vascoloy-Ramet" (Cemented tantalum-tungsten carbide; "Tantungs" (Co-Cr alloy))

tung' Viking Conn " [Co-Cr alloy])
Tool Co 1000 Nichols Rd Shelton

Viking Tool Co 1000 Nichols Rd Shelton Conn
Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich. (Bits.)
W-S—See Wendt-Sonis Co.
Weldon Tool Co 3000 Woodhill Rd Cleveland
4 Ohio (High speed or carbide)
Wendt-Sonis Co 10th & Collier Sts Hannibal
Mo "W-S" (Carbide tipped)
Wesson Tool Co 12200 Woodward Heights
Bivd Ferndale 20 Mich
Wet 10re Reamer Co 420 N 27th St Milwaukee 8 Wis
Whitman & Barnes Div of United Drill &
Tool Corp 40085 Plymouth Rd Plymouth
Mich (Carbide tipped)
Willey's Carbide Tool Co., 1340 W. Vernor
Highwav. Detroit 1. Mich.
Zephyr Mig Co 201 Hindry Ave Inglewood
Calif (Bits)

TOOLS, Electric Marking

(For writing or marking on steel) (For writing or marking on steel)
Acromark Co 9 Morrell St Elizabeth 4 N J
Annis Co R B 1101 N Delaware St Indianapolis 2 Ind
Blackhawk—See New Britain Machine Co
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.

Ideal Industries, Inc., 1937 and 1937 a St New Britian "New Britain"

TOOLS, Hand

Handicraft Tools Inc 48-73 Van Dam St Long Island City 1 N Y Utica Drop Forge & Tool—Div of Kelsey-Hayes Co 2506 Whitesboro St Utica 4 N Y

TOOLS, HONING—See Hones, Cylinder; also Hones, Small Bore

TOOLS, Lathe, Planer, Slotter and Shaper

(See also Holders, Tool)

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 30 Ill Bullard Co 286 Canfield Ave Bridgeport 9 Conn (Lathe)

Bullard Co 286 Cannelle Ave Lands & Lewis Conn (Lathe)
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co 475 S Seymour St Fond du Lac Wis (Turret lathe)
Ex-Cell-O Corp., Continental Tool Works Div., 1200 Oakman Bivd., Detroit 22, Mich. (Cemented carbide.)
General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich (Cemented tungsten, tantalum and titanium carbide)
Kennametal Inc Lloyd Ave Latrobe Pa

Kennametal Inc Lloyd Ave Latrob (Cemented carbide lathe and planer) O K Tool Co Milford N H

South Bend Lathe Works 425 E Madison St South Bend 22 Ind (Lathe) Viking Tool Co 1000 Nichols Rd Shelton

OOLS, METAL FINISHING (PORTABLE ELECTRIC)—See Machines, Flexible Shaft

TOOLS, Nut, Screw or Bolt Holding

Aircraft Specialities Inc Howard & Higle Sts Lapeer Mich "Mechanical Fingers "Startzit."

"Startzit."
Mechanical Fingers—See Aircraft Special-ties. Inc.
Owatonna Tool Co 342 N Cedar St Owatonna Minn (Magnetic)
Startzit—See Aircraft Specialities Inc

TOOLS, Piston Ring Compressing (To facilitate the entering of piston and ring into cylinder)

A.S.C.—See Aircraft Specialties, Inc.
Aircraft Specialties, Inc., Howard & Higley
Sts. Lapeer, Mich. "A.S.C."
Blackhawk—See New Britain Machine Co
Blue Point—See Snap-On Tools Corp.
Burd Piston Ring Co Box 567 Eau Claire

Van Machine Products Inc 809 S Water or Jackson Mich Cornwell Quality Tools Co., Mogadore, Ohio. Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 33, Ill. "Duro Chrome." Fayson Tool Co., 1412 W. Second St., Hast-St Jackson Mich

Hastings Mfg Co N Hanover St Hastings Herbrand Div Bingham-Herbrand Corp Lake

& Stone Sts Fremont Ohio Kastar Inc 200 Lincoln Ave N Y 54. N Y Kennedy Service Tools Co 788 Evans Ave

Akron 5 Ohlo
Kent-Moore Organization Inc 1501 S Jackson
St Jackson Mich
Lisle Corp. 805 E. Main St., Clarinda, Iowa.
Master Signal Co 1005 Sutton St Howell
Mich "Master" "Standard"
Milch "Master" "Standard"
Milch Co. L B 336 W Main St Stamford

Miller National Machine & Tool Co 4077 Page Ave

National Machine & Tool Co 4077 Fage ave Jackson Mich New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"

Owatonna Tool Co., 342 N. Cedar St., Owatonna Minn.

P & C Tool Co Box 5926 Milwaukle Ore Pedrick—See Wilkening Mfg. Co.

Proto Tools 2209 Santa Fe Ave Los Angeles Calif

Ca . 12th St., phia 42 Pa "Pedrick" Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ili

TOOLS, PLANER-See Tools, Lathe, Planer, Slotter and Shaper

TOOLS, Pneumatic

Air-Speed Tool Co 1502 W Slauson Ave Los Angeles 47 Calif (Saw and file) Aro Equipment Corp., Bryan, Ohio. Bantam-Bully—See Supreme Pneumatic & Mig Inc Big Bully—See Supreme Pneumatic & Mig Inc

Inc
Buckeye Tools Corp Dayton 1 Ohio
CP—See Chicago Pneumatic Tool Co.
Chicago Pneumatic Tool Co. 6 E. 44th St.,
New York, N. Y. "CP." (Also pneudraulic pump for use with shop tools.)
Cleco Div of Reed Roller Bit Co 5125 Clinton
Drive Houston 1 Tex (Hammers, drills,

Ingersoil-Rand Co 11 Broadway New York 4 N Y

4 N T
K & W Products Inc 8319 Allport Ave Whittier Calif (Peening hammers)
Keller Tool Div Gardner Denver Co 1333
Fulton St Grand Haven Mich
Master Pneumatic Tool Co Krick Rd Bedford Ohio "Master Power"
32 Ohio
Quality Tools Corp Railroad St New Wilmington Pa (Chisels)
Rotor Tool Co 23600 Lakeland Ave Cleveland
32 Ohio Rotor Too

32 Ohio Salsbury Corp., 1161 E. Florence Ave., Los Angeles I, Calif. "Salsbury Afryun." Superior Pneumatic & Mfg Inc 4758 Warner Rd Cleveland 25 Ohio "Bantam Bully" "Big Bully" "Superior" (Hammers) Thor Power Tool Co 175 State St Aurora III

TOOLS, Radiator Shop & Supplies

Lake Auto Radiator Mfg Co 5200 W 130th St Cleveland 30 Ohio

TOOLS, SOLDERING-See Irons, Soldering

Higley TOOLS, Spot Facing

Bicknell-Thomas Co Box 431 Greenfield Mass Ex-Cell-O Corp., Continental Tool Works Div., 1200 Oakman Blvd., Detroit 32, Mich. Genesee Mfg Co 566 Hollenbeck St Rochester

21 N Y aynes Stellite Co 725 S Lindsay St Kokomo

Ind
Mummert-Dixon Co., Philadelphia & Gay
Sts., Hanover, Pa.
Production Tool Co. of America, \$474 Le
Grand Ave., Detroit 11, Mich.
Stanworth Tool Mfg Corp P O Box 31 Lebanon Ind

non Ind Staples Tool Co., 2851 Massachusetts Ave. Cincinnati 25, Ohio. (Carboloy tipped.) W-S-See Wendt-Sonls Co. Wendt-Sonls Co 10th & Collier Sts Hannibal Mo "W-S" Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

TOOLS, Spring Coiling

Empire-See Greene, Tweed & Co

Empire—See Greene, Tweed & Co.
Greene, Tweed & Co., North Wales, Pa
"Empire."
Hjorth Lathe & Tool Co., 12 Beacon St.,
Woburn, Mass. "Perfection."
Martindale Electric Co., 1340 Hird Ave.
Cleveland 7, Ohio.
Perfection—See Hjorth Lathe & Tool Co.
Sleeper & Hartley Inc 335 Chandler St Worcester 2 Mass
Willey's Carbide Tool Co., 1340 W. Vernor
Highway, Detroit 1, Mich.

TOOLS, Spring Testing

Accurate Re-Nu Clutch Div of MarPro Inc 168 N Michigan Ave Chicago 1 Ill (Valve) Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (For starter and generator brushes.) Cedar Rapids Engineering Co 902 17th St NE Cedar Rapids Iowa "Kwik-Way" Electro Products Co 445 E 189th St N Y 58 N Y

Kwik-Way-See Cedar Rapids Engineering

Co.
Rimac—See Rinck-McIlwaine, Inc.
Rinck-McIlwaine, Inc., 16 Hudson St., New
York 13, N. Y. "Rimac." (For valve and
clutch springs.)
Sturtevant Co P A Addison Ill (For valve
and clutch springs)

TOOLS, Thread Cutting

Barber-Colman Co., 1300 Rock St., Rockford III ford, III.
Pratt & Whitney Co Charter Oak Blvd West
Hartford 1 Conn
Rivett Lathe & Grinder Inc., 20 Riverview
Rd., Brighton, Boston, Mass.
Threadwell Tap & Die Co., Greenfield, Mass.
Toledo Pipe Threading Machine Co., 1445
Summit Ave., Toledo 4, Ohio.

TOOLS, Transmission

Automotive Service Tools Inc 700 Sheridan St Lansing 6 Mich Blackhawk—See New Britain Machine Co Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio Cornwell Quality Tools Co Mogadore Ohio Duro Metal Products Co 2649 N Kildare Ave Chicago 39 III Houdaille Industries Inc Manzel Div 315 Babcock St Buffalo 10 N Y "Manzel" Kent-Moore Organization Inc 1501 S Jackson

Houdaille Industries Inc Manzel Div 315 Babcock St Buffalo 10 N Y "Manzel"
Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich "Rate-Maker"
Manzel—See Houdaille Industries Inc
Miller Mig Co 17640 Grand River Ave Detroit 27 Mich
National Machine Works Inc 1800 S Broadway Oklahoma City 9 Okla (Bushing pullers and drivers)
New Britain Machine Co Hand Tools Div
South St New Britain Conn "Blackhawk"
& "New Britain"
Proto Tools Co 2209 Sante Fe Ave Los Angeles 54 Calif
Rate-Maker—See Kent-Moore Organizat...B

Republic Gear Co 2197 Beaufait Ave Detroit Snap-On Tools Corp 8046 28th Ave Kenosha

TOOLS, Tube Flaring

(See also Machines, Tube Flaring) Acorn Mfg Co 33rd & Reed Sts Erie Pa

Amco-See Acorn Mfg. Co Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 30 Ill

Blackhawk—See New Britain Machine Co Cal-Van Machine Products Inc 809 S Water St Jackson Mich Cornwell Quality Tools Co Mogadore Ohio Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio Duro Metal Products Co 2649 N Kildare Ave

Chicago 39 Ill
Edelmann & Co E 2332 Logan Blvd Chicago TOP MATERIALS—See Fabric, Coated Cloth
47 Ill "Erco" (For Seat Covers, Tops and Upholstery)

Edelmann & Co E 2532 Logan Bive Chicago (For Seat Covers, Tops and Upholstery)
Erco—See E Edelmann & Co
Everfiare—See Everhot Products Co
Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ill "Flaremaster" & "EverTORCHES, Welding, Cutting and Braz-

flare"

Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y Flaremaster—See Everhot Products Co G M Co Mfg Inc 13-08 43rd Ave Long Island City L I N Y Hi-Duty—See Imperial Brass Mfg Co Hunt Mfg Co Geo L 106 Commercial St Boscobel Wis Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill "Hi-Duty" "Imperial" & "Rol-Ali"

J & J Machine Co 15420 St Cleic America

& J Machine Co., 15420 St. Clair Ave. Cleveland 10, Ohio. "Jet-Vac." (Sole dis-tributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.) t-Vac—See J & J Machine (

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich Leader Screw & Mfg Co 3805 E 91st St Cleveland 5 Ohio

Logansport Machine Co Center Ave Logans-

Co L B 336 W Main St Stamford

National Machine & Tool Co., 4077 Page Ave. Jackson. Mich. National Machine & Tool Co., 4077 Page Ave. Jackson. Mich.
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"
OTC—See Owatonna Tool Co.
Owatonna Tool Co., 342 N. Cedar St., Owatonna Minn. "OTC."
Papco—See Fenn Brass & Copper Co
Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12
Ohio

Ohio
Penn Brass & Copper Co 3837 W 20th St
Erie Pa "Papco"
Preferred Electric & Wire Co Bush Terminal Bide No 8 Brooklyn 32 N Y
Quality Tools Corp Railroad St New Wilmington Pa
Rimac—See Rinck-M:liwaine Inc
Rinck-Mcliwaine Inc 16 Hudson St N Y 13
N Y "Rimac"
Rol-Air-See Imperial Brass Mfg Co
Rovtar Tool-Die Mfg Co 2230 S Wood St
Chicago 8 Ill

Chicago 8 Ill tevens Walden, Inc., 475 Shrewsbury St.,

Worcester, Mass.
Weatherhead Co Fort Wayne Div 128 W
Washington Blvd Fort Wayne Ind
Zoerman-Clark Mig Co 624 N Mechanic St
Jackson Mich

TOOLS, Turret Lathe

(Including cutters, counterbores, spot-facers and holders for automatic and other turret lathes)

Bardons & Oliver, Inc., 1133 W. Ninth St., Cleveland 13 Ohlo. Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich

Genessee Mfg Co 566 Hollenbeck St Roches-ter 21 N Y Warner & Swasey Co., 5701 Carnegie Ave., Cleveland 3. Ohio.

TOOLS, VALVE CLEARANCE GAGING—See Gages, Valve Clearance

WHEEL TRUEING-See Dressers, Grinding Wheel

TOOLS, Wire Stripping

Burndy Corp Omaton Div Norwalk Conn "Hytool"

"Hytool"
Crescent Co 20 Central Ave Pawtucket R I
"Wiry Joe"
E-Z-See Ideal Industries Inc
Easy-Strip-See Holub Industries Inc
General Cement Mfg Co 919 Taylor Ave
Rockford Ill "Speedex" (Sole distributors
Speedex Mfg Co 919 Taylor Ave Rockford
Ill)

-Speed-See Holub Industries Inc Hi-Speed—See Holub Industries Inc Holub Industries Inc 413 DeKalb Ave Syca-more III "Hi-Speed" and "Easy-Strip" Hytool—See Burndy Corp Omaton Div Ideal Industries Inc 1014 Park Ave Syca-more III "E-Z," "Stripmaster" Martindale Electric Co., 1340 Hird Ave., Cieveland 7, Ohlo.

Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif Speedex—See General Cement Mfg Co Stripmaster—See ideal industries inc Wiry Joe—See Crescent Co.

TOP FIXTURES—See Hardware, Automobile and Truck Body; also Regulators, Top

ing

(For complete oxy-acetylene outfits— See Welders and Equipment [Oxy-acetylene])

acetylene])
Airco—See Air Reduction Sales Co.
Air Reduction Sales Co Socony-Mobil Bidg
150 E 42nd St New York 17 N Y "Airco"
American Gas Furnace Co., Lafayette,
Spring & Elizabeth Sts., Elizabeth, N. J. (Brazing.)

(Brazing.) Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Rurdox." Burdox.—See Burdett Oxygen Co. of Cleve-

Burdox-See Cutmaster—See Modern Engrg Co Dockson Co C H 3839 Wabash Ave Detroit 8 Mich

Gasweld—See Liquid Carbonic Corp

S Mich
Gasweld—See Liquid Carbonic Corp
Harris Calorific Co 5501 Cass Ave N W
Cleveland 2 Ohio
Hellarc—See Linde Co
Hoke Inc 136 S Dean St Englewood N J
"Hoke-Phoenix—See Hoke Inc
Huber Industries Inc 4960 Hillside Ave Cincinnati 33 Ohio (Acetylene brazing)
Jiffy—See Modern Engrg Co
K-G Equipment Co 1744 Lehigh St Allentown
Pa (Oxy-acetylene)
Lee Co K O Congress at First Ave S E
Aberdeen S D
Lenk Mfg Co Franklin Ky (Gasoline)
Linde Co 30 E 42nd St New York 17 N Y
"Oxweld" "Purov"; "Hellarc" (Electric)
Liquid Carbonic Corp Industrial Gas Div
Front & Porter Sts Philadelphia 42 Pa
"Gasweld"
Marquette Mfg Co 207 E Hennepin Ave
Minneapolis 14 Minn
Mid-States Welder Mfg Co 6025 S Ashland
Ave Chicago 36 III (Electric are welding)
Modern Engrg Co 311 Pine Bird St Louis 3
Mo "Jiffy" (Brazing; "Cutmaster" welding)
National Cylinder Gas Co 4700 W 19th St

Mo "Jiffy" (Brazing; "Cutmaster" welding)
National Cylinder Gas Co 4700 W 19th St
Chicago III "Torchweld" "National"
National Welding Equipment Co 218 Frement St San Francisco 5 Calif
North American Mfg Co 4455 E 71st St
Cleveland 5 Ohio (Welding)
Oxweld—See Linde Co
Pier Equipment Mfg Co Milton & Cross Sts
Benton Harbor Mich
Purox—See Linde Co
Sight Feed Generator Co West Alexandria
Ohio (Acetylene brazing)
Smith Welding Equipment Corp 2633 Fourth
St S E Minneapolis 14 Minn
Tolman Mfg Co 19 W Third St (South Boston) Boston 27 Mass
Torchweld—See National Cylinder Gas Co
Victor Equipment Co 844 Folsom St San
Francisco 7 Calif

TORQUE CONVERTER FLUID COUPLINGS
—See Couplings, Fluid, Torque Converter (Truck)

TORQUE CONVERTERS. Hy Converters, Torque (Hydraulic)

TORQUE GAGES-See Gages, Torque

TORQUE WRENCHES-See Wrenches, Torque

TORQUE WRENCH TESTER-See Testers, Torque (Wrench) TORSION BAR SPRINGS-See Springs, Tor-

sion Bar TOTE BOXES-See Boxes, Tote; also Boxes,

iering TRACKS, OVERHEAD CARRYING—See Systems. Overhead Carrying

TRACTION SANDERS—See Sanders, Trac-tion (Automobile, Truck and Bus)

TRACTORS, Agricultural

Agricat—See Joost Mfg Co Allis-Chalmers Mfg, Co., Milwaukee 1, Wis. American Coleman Co Littleton Colo (For cane and rice fields)

American Tractor Corp Churubusco Ind "Terratrac" (Diesel and gasoline) Bantam Tractor Corp 701 Lafayette Ave Lebanon Ind Black Hawk—See Cockshutt Farm Equip

olens Products Div Food Machinery & Chemical Corp 215 Park St Port Wash-Bolens

Chemical Corp 215 Park St Port Washington Wis Case Co. J. I., 700 State St., Racine, Wis. Caterpillar Tractor Co Peoria III (Diesel) Cockshutt Farm Equipment inc Monroe St Bellevue Ohio "Black Hawk" & "Cockshutt

Deere & Co., 1325 Third Ave., Moline, Ill.

"John Deere."
Schelman Co Cheston L 109 Light St Baltimore 2 Md
armail—See International Harvester Co.
erguson-See Massey Ferguson Inc
ord Motor Co Tractor & Implement Div
2500 E Maple Rd Birmingham Mich
riday Tractor Co., R.F.D. No. 2, Hartford,
Mich.

Friday Tractor Co., K.F.D. No. 2, Hartford, Mich. Great Lakes Tractor Co Mill St Rock Creek

Friday Tractor Co., R.F.D. No. 2, Harttord, Mich.
Grat Lakes Tractor Co Mill St Rock Creek Ohio (Garden)
International Harvester Co., Harvester Bidg., 180 N. Michigan Ave., Chicago 1, Ill. "Mc-Cormick," "Farmall."
John Deere—See Deere & Co.
Joost Mfg Co 742 Bancroft Way Berkeley 10 Calif "Agricat"

MM—See Minneapolis-Moline Co
McCormick—See International Harvester Co.
Massey-Ferguson Inc 12601 Southfield Rd Detroit Mich "Ferguson" "Massey-Harris"
"Work Bull"
Massey-Harris—See Massey-Ferguson Inc Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill "Mead Speedcat"
Merry Mfg Co PO Box 698 Edmonds Wash (Garden)
Minneapolis-Moline Co Tractor Div Box 1050
Minneapolis 40 Minn "MM"
Oliver Corp 400 W Madison St Chicago 4
Ill (Gasoline Diesel and LP-Gas)
Peppy-Pal—See Shaw Mfg Co.
Power Implement Div Southérn Saw Works
Inc 418 N Main St East Point Ga "Snapper" (Garden)
Shaw Mfg. Co., Front & Center Sts. Galesburg, Kans. "Peppy-Pal," "Shaw Du-All."
(Garden and small farm.)
Sheppard Co R H 101 Philadelphia St Hanover Pa (Diesel)
Snapper—See Power Implement Div Southern Saw Works Inc
Terratrac—See American Tractor Corp
Tiger Tractor Corp East & Moselle Sts
Keyser W Va (Garden)
Work Bull—See Massey-Ferguson Inc
Worthington Mower Co N 2nd St Stroudsburg Pa (Gang mower)

TRACTORS, Industrial (Diesel)

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis. Deere & Co 1325 Third Ave Moline III Hensel Green & Co 9 S Clinton St Chicago 6 III "Unitow"

International Harvester Co., Harvester Bidg., 180 N. Michigan Ave., Chicago 1, Ill. Oliver Corp 400 W Madison St Chicago 6 Ill

-See Hensel Green &

TRACTORS, Industrial (Electric)

Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Automatic" "Transtractor"
Barrett-Cravens Co 630 Dundee Rd North-brook Ill Elwell-Parker Electric Co 4205 St Clair Ave

Elweil-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio (Also gaz-electric) Hitco—See Howell Industrial Truck Co Howell Industrial Truck Co 1083 Eric Clift St Cleveland 7 Ohio "Hitco" Jacktractor — See Lewis-Shepard Products Inc

Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "Jacktractor" Mercury Mfg Co 4700 W Division St Chi-cago 51 III

cago 51 Ill Moto-True Co 1953 E 59th St Cleveland 3 Ohlo ony Express—See Rocky Mountain Steel

Products, Inc.
ocky Mountain Steel Products Inc 1758
Blake Ave Les Angeles 21 Calif "Pony Ex-

Transtractor—See Automatic Transportation

Co Yale & Towne Mfg Co Yale Materials Han-dling Div 11800 Roosevelt Bivd Philadel-phia 15 Pa

TRACTORS, Industrial (Gasoline)

Allis-Chalmers Mfg Co Engine Mater Handling Div 1135 S 70th St Milwaukee

TRACTORS, Industrial (Gasoline) -continued

Case Co., J. I., 700 State St., Racine, Wis.
Clark Equipment Co Industrial Truck Div
Battle Creek 85 Mich "Clarkat" "Clarkette" "Clarktor"
Deere & Co 1325 Third Ave Moline Ill
Elwell-Parker Electric Co 4205 St Clair Ave
Cleveland 3 Ohio (Also gas-electric)
"HH" Mfrs 2224 Cerritos Ave Long Beach
6 Calif

6 Calif
Hensel Green & Co 9 S Clinton St Chicago 6
Ill "Unitow"
Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co 1083 Eric Cliff
St Cleveland 7 Ohio "Hitco"
International Harvester Co., Harvester Bidg.,
180 N. Michigan Ave., Chicago I. Ill.
Mercury Mfg Co 4700 W Division St Chicago 51 Ill.
Collver Corp 400 W Madison St Chicago 6 Ill
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.

Oniver Corp 400 W Madison St Chicago e III Towmotor Corp., 1226 E. 152nd St., Cleve-land 10, Ohlo. Unitow—See Hensel Green & Co Yale & Towne Mfg Co Yale Materials Han-dling Div 11000 Roosevelt Blvd Philadel-phia 15 Pa

TRACTORS, Industrial (LP-Gas) Oliver Corp 400 W Madison St Chicago 6 Ill

TRAFFIC SIGNALS-See Signals, Direction

RAILER PARTS—See Axie Suspension Units, for Trailers; Axies, Trailer; Brakes, Trailer; Connectors, Electrical Circuit (Trailer); Controls, Brake (Trailer); Controls, Brake (Trailer); Conveyors, Truck and Trailer (Floor Type); Couplers, Trailer; Gears, Landing (Trailer); Gears, Running (Trailer); Locks, Trailer; Lubricators for Autos, Trucks, Trailers and Buses (Central System); Tanks, Trailer and Tank Body; Ventilators, Trailer; Wheels, Trailer; Windows, Metal Sash (Bus, Cab and Trailer)

TRAILERS, Auto, Truck and Tractor Transport

Transport

Fox Body Co 1109 Galena St Janesville Wis (Auto)

Fruehauf Trailer Co 10904 Harper Ave Detroit 32 Mich

Mechanical Handling Systems, Inc., 4600

Nancy Ave. Detroit 12, Mich.

Traffic Transport Engrg Inc 1430; Schaden

Ave Dearborn Mich

Troyler Corp 1445 Meylert Ave Scranton Pa

W & K—See Whitehead & Kales Co.

Whitehead & Kales Co., 58 Haltiner St.,

River Rouge 18, Mich. "W & K."

TRAILERS, Commercial, Low-Bed, Off-Highway, Utility, Etc.

ABC—See Aluminum Body Corp
Ace Trailer & Equipment Co Div of Reliable
Automotive Co H & San Joaquin Sts
Fresno Cal (6-wheel, 4-wheel and semi)
Adams Engrg Co 31711 Solon kd Solon Ohio
(Pole and cable reel)
Aerobilt Bodies Inc Athens N Y (Alumi-

num)
Aluminum Body Corp 1600 W Washington
Blvd Montebello Calif "ABC" (Aluminum)
American Body & Trailer, Inc., P. O. Box
1150, Oklahoma City 1, Okla. (Seml.)
American Machine Works 1027 W Broadway

1150. Oklahoma City 1, Okla. (Seml.)
American Machine Works 1027 W Broadway
Spokane Wash (Logging)
American Trailer & Mfg Co 12222 S Woodruft
Ave Downey Calif
Andrews Industries Inc 7901 Alabama Ave
St Louis 11 Mo "Andrews" (Aluminum or
steel dry freight van open top and refrigerated; "Dockmaster" aluminum or
steel city delivery livestock and grain)
Anthony Co Streator III "Anthony Teleramic" (Dump and frameless dump)
Athey Products Corp 5631 W 65th St Chicago
38 III (Earth moving and highway construction)

38 Ill (Earth moving and highway construction)
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log., pole and semi.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 2, Mo.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 3, Ill.
Beal: Pipe & Tank Corp 12005 N Burgard St. Portland 3 Ore (Aluminum and steel, logging and machinery)
Bedell Trailer Co 1506 S Flores St San Antonio 4 Tex

Birmingham Mfg Co 1101 S 2nd Ave P O Box 1351 Birmingham Ala (Low bed machinery)
Black Diamond Trailer Co., Euclid Ave.,
Bristol, Va.

Brown—See Clark Equipment Co Brown Truck & Trailer Mfg Co P O Box 1281 Morris Field Charlotte 1 N C (Custom built)

tom built)
Brunswick Body Wks U S Route 1 New
Brunswick M J (Platform)
C & C Trailer & Body Co 8855 San Leandro
St Oakland 21 Calift
Carlisle Machine Works Box 8 Longview
Tex (Dump stock and pick-up)

Cemco Industries Inc Galion Ohio (Bulk ce-

Tex (Dump stock and pick-up)
Cemco Industries lnc Galion Ohio (Bulk cement)
Clark Co B M Union Me (Van rack and low bed custom built)
Clark Equipment Co Brown Trailer Div Buchanan Mich "Brown" (Aluminum platform grain and van)
Clement-Braswell Inc 507 First National Bank Bldg Shreveport La (Dump)
Converto Mfg Co Third & Green Sts Cambridge City Ind (Semi and dump)
Cook Bros Equipment Co 2334 San Fernando Rd Los Angeles 65 Calif
Copco Trailers Div of Copco Steel & Engrg Co 23500 Sherwood Rd Detroit 34 Mich "Copco" "Edwards" (Steel and aluminum van fiat refrigerated and dump)
Cox & Sons Leon O Grifton N C (Farm, boat and utility)
Leiphi Body Works 311 S Washington St

and utility)

siphi Body

belphi Body

Delphi Ind (Hot line tool: also pole)

ctroit Trailer Co 481 Beaufait St Detroit Detroit '7 Mich

Detroit Trailer Co 481 Beaufait St Detroit 7 Mich 7 Mich 7 Mich 7 Mich 7 Dorsey Trailers Inc Elba Ala (Van stake platform pole machinery etc) Eagle—See Utility Tool & Body Co Easton Car & Construction Co Liberty & Holly Sts Easton Pa (Off-highway for mines quarries and earth moving) Edwards—See Copco Trailers Div Edwards—See Copco Trailers—See Maximal Dividers—See Copco Trailers—See Misson See Copco Trailers—See Misson See Copco Trailers—See Copco Traile

F.A.B. Mfg. Co., 1249 67th St., Cakla Cal. "Fabco." (Full, semi, log and chinery)
Fabco—See F.A.B. Mfg. Co. Oakland 8

chinery)
Faboo-See F.A.B. Mfg. Co.
Farrell Mfg Co 804 E Cass St Joliet III
(Tank)
Fayette Mfg Co Haulette Div Morenet Mich
"Haulette" (Low bed for construction
equipment and farm tractors)
Feigelson Co., Alex., 506 S. Fourth St., Beaumont, Tex. (Oilfeld, logging, low bed, etc.)
Fontaine Truck Equipment Co 1232 N 37th
Place Birmingham Ala (Flat dump and
machinery)

machinery) oater Trailer Co 2026 Bay St Los Angoles 21 Calif (Tilt-bed low-bed) reightliner Corp 5400 N Basin Ave Port-land Ore

land Ore
Fruehauf-Carter Div Fruehauf Trailer Co
2352 Winchester Pike Memphis Tenn
Fruehauf Trailer Co., 10840 Harper Ave.,
Detroit 32, Mich.
Gerstenslager Co Wooster Ohlo

Gindy Mfg Corn Boot Rd & Chestnut St Downingtown Pa

Gledhill Road Machinery Co S State Rd Gallon O (Implement) Gramm Trailer Corp 425 E O'Connor Ave Lima Ohio (Semi-cargo, bulk, transport

and tank)
Great Dane Trailers Inc P O Box 1159 Savannah Ga (Aluminum dry cargo and refrigerated: flat-platform and petroleum transport) & Machinery Co. Hanson

Hanson Clutch & Machinery Co. Wall & Miami Sts Tiffin 15 Ohlo (Low platform) Haulette—See Fayette Mfg Co Heil Co 3000 W Montana St Milwaukee 1 Wis (Steel tank) Hercules Galion Products Inc Galion Ohlo

(Dump)

(Dump)

Highway Trailer Co 405 E Fulton St Edgerton Wis (Pipe pole cable reel tank van oil field livestock grain etc)

Hobbs Trailers Div of Fruehauf Trailer Co 609 N Main St Fort Worth 1 Tex (Pole dump logging machinery cattle grain oil field pipe and refrigerated)

Holan Corp., J. H., 4100 W 150th St., Cleveland 35 Ohio (Pole and cable reel)

Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio. (Semi, tandem and four wheel.)

Ideal Mfg Co 1107 S 7th St Oskaloosa Iowa (2-wheel utility)

Kelly Ryan Equipment Co Blair Nebr (Util-Kentucky Mfg Co 2601 S Third St Louisville

8 Ky
Keystone Trailer & Equipment Co., 1501
Guinotte Ave., Kansas City 20, Mo.
Kingham Trailer Co., 15th & Hill Sts., Louisville 10 Ky
La Crosse Trailer Corp 418 Gould St La
Crosse Wis (Also Machinery)
Lamicooler—See Strick Trailers Div of Fruebant Trailer Co.

hauf Trailer Co Langlois Bros 717 S San Pedro St Los An-geles 14 Calif Loadcraft — See Spencer-Safford Loadcraft

Loadmaster—See Miller & Smith Mfg Co. Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)

etc.)
Lyncoach & Truck Co 443 Chestnut St
Oneonta N Y (Medical dental business display cargo etc)
McCabe-Powers Body Co 5900 N Broadway
St Louis 15 Mo "Powers" (Hydraulic
dump; "Powers - American" pole and

dump: 'Powers Ablestone
utility)
McKay Mfg. Co., John A., Dunn, N. C
'McKay Sturdyblit'
Marion Metal Products Co Cheney Ave
Marion Ohio (Dump)
Marion Ohio (Dump)

Marion Ohio (Dump)

Martin Machine Co 816 N East St Kewanee
III (Heavy duty machinery; sole distributors, Caterpillar Tractor Co 600 W Washington St Peoria 8 III)

Mastercraft Trailers Inc Middlefield St Middletown Conn (Two-wheel utility)

Miami Specialties Co W Trade Rd Troy Ohio
Mighty Mover Straddle Trailer Co 1701 E
Louislana St Denver 10 Colo (Straddle)

Miller & Smith Mfg Co 500 Phoenix Ave
N W Albuquerque N Mex "Loadmaster"

Miller Trailers Inc 233 Sixth Ave W Braden-

N W Albuquerque N Mex "Loadmaster" Miller Trailers Inc 333 Sixth Ave W Bradenton Fla (Dry freight refrigerated drop frame platform and bulk fruit)
Montgomery Body & Trailer Mfg Co Route 37 South Salem III
Nabors Co., W. C., Mansfield, La.
Ohio Body Mfg Co New London Ohio (Semi)
Omaha Standard 240! W Broadway Council
Bluffs Iowa (Construction type bottom Bluffs Iowa (Construction type bo dump end dump livestock and grain)

dump end dump livestock and grain)

Oren Roanoke Corp., 1201 W. Salem Ave.,
Roanoke, Va. (Fire pumping units.)

P-W-See Pointer-Williamette Co

Page & Page Co., 0605 S. W. Curry St., Portland I, Ore. (Dual axle logging tilt-bed

machinery and wood chip)

machinery and wood chip)
Paul Bunyan Co., 1692 Cove Ave., La Grande,
Oreg. "Paul Bunyan."
Pierce Trailer & Equipment Co 1306 S E
Ninth Ave Portland 14 Ore (Logging
lumber and machinery)
Pointer-Willamette Co P O Box 368 Edmonds
Wash "P-W" (Machinery and highway;
"West-Pointer" logging and special types)
Powers Ave Octobe Powers Avec October Powers Po

Powers-See McCabe-Powers Auto Co Powers-American-See McCabe-Powers Body

Co
Progress Mfg Co Oil Equipment Div Arthur
Ill (For asphalt and other liquids)
Reliance Trailer & Truck Co 2765 16th St
San Francisco 3 Calif (Also logging)
Remke Inc 28100 Groesbeck Hwy Roseville

Mich

Rogers Bros Corp Orchard St Albion Pa (Low bed heavy duty) Santeler Bros 950 E Main St Columbus 5

Schafer Plow Co 28 Simpson St Pratt Kans (Farm implement)
Schertzer Equipment Co 32 Prospect St
Somerville 28 Mass

Selma Trailer & Mfg Co 3111 Highway Selma Calif (Flat top utility tilt dump crop etc)

crop etc)
Spartan Aircraft Co 1900 N Sheridan Rd
Tulsa Okla "Spartanft" "Spartan" (Display field office etc)
Spen & Co Henry 1995 Pitkin Ave Brooklyn
7 N Y (Utility, floodlight, oxygen servicing
and mobile metion picture units)
Spencer-Safford Loadcraft Inc Augusta Kan

Spencer-Safford Loadcraft Inc Augusta Kan "Loadcraft" (Semi oil field pole and fourwheel low-bed atc)
Standard Trailer Co. 415 Park St San Leandro Calif (Also "Standard Lo-Loader" low bed; "Standard Reelmaster" reel)
Strick Trailers Div of Fruekauf Trailer Co 5604 N Broad St Philadelphia 11 Pa "Strick" & "Strick Roof" (Aluminum; "Lamicooler" plastic refrigerated)
Superior Trailer Mfg Corp 1125 Georgia St Indianapolis Ind (Aluminum dry cargo refrigerated flat platform and petroleum transfer)
Superior Trailer Works 1430 E Washington

Superior Trailer Works 1430 E Washington Blvd Los Angeles 31 Calif (Semi full low-bed, tilt-bed and petroleum coke)

Talbert Trailers Inc Box 56 Lyons Ill (Low- TRAILERS, Mobile Housing

Talbert Trailers Inc Box 56 Lyons III (Low-bed and dump)
TEC-See Truck Engineering Co.
Thomas & Co., Peter, 1320 Main St., Seattle
22, Wash. (Semi. log and four-wheel.)
Thompson Trailer Co 2 Old Court Rd Pikesville Md ("Thompson" Flat bed; "Thompson Standard" reel and pole)
Timmons Metal Products Co 845 Harrisburg
Pike Columbus 16 Ohio "Timpco" (Vend-

ing)

ing)
Timpoo—See Timmons Metal Products Co
Timpte Bros., Inc., E. 40th Ave. & York St.,
Denver 5. Colo.
Towner Mfg Co Box 264 Santa Ana Calif
Trailco Mfg. & Sales Co., Mill St., Hummels
Wharf, Fa. (Seml.)
Trailmobile Inc 3

Cedar Rapids Iowa (Dump grain livestock low-bed platform tilt van etc)
Troyler Corp 1445 Meylert Ave Scranton Pa (Light weight coal and dump)

(Light weight coal and dump)
ruck Engineering Corp., 1285 W. 70th St.,
Cleveland 2, Ohlo. "TEC." (Four-wheel,
semi pole low bed machinery end dump
and hopper bottom dump)
ruck Parts & Equip Inc 82 E Harry St

Truck Parts & Equip Inc 82 E Harry St Wichita Kans
Truck-Trailer Supply Co 720 W Broadway Stafford Kans "Samson" (Pole, grain, low-boy and oil field)
Tyler Equipment Co 1919 Sawyer St Houston 10 Tex (Horse stock etc)
Utility Tool & Body Co 151 E 18th St Clintonville Wis "Eagle" (Cable reel pole tele-scoping and low bed transformer)
Utility Trailer Mfg Co P O Box F-1 City of Industry Calif
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson 2, N. J. "V & W." (Aluminum.)
Vulcan Trailer Mfg Co 90 34th St N Birmingham Ala (Low bed platform and aluminum van)

ingham Ala (1600 No. 1000 No.

Los Angeles 54 Calif (Semi, four, six-wheel and machinery)
Wells Cargo Div of Prairie Schooner Inc 1501 W Bristol St Elkhart Ind Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and

Wentworth a 14. Ore. (Also loballed by St., Portland 14, Ore. (Also loballed by St., Portland 10 Ore.)
Westland Trailer Co 3900 N W Yeon Ave. Portland 10 Ore.
West-Pointer—See Pointer-Williamette Co. Whitehead & Kales Co., 58 Haltiner St., River Rouge 18, Mich. "W & K." Williamen Body & Equipment Co Ninth & Williamsen Body & Equipment Co Ninth & Wilson Trailer Co 2400 Leech Ave Sioux City 6 Iowa (Grain, livestock, van and refriganted)

erated)
Winter-Weiss Co 2201 Blake St Denver 5
Colo (Low bed machinery and farm)
Wolf Engrg Corp 1201 Main St Dallas Tex
(Welfwares)

TRAILERS. Industrial

AMERICAN, INGUSTRAI
American Trailer & Mfg Co 12222 S Woodruff
Ave Downey Calif
Colon Co Leroy L 2916 N Cicero Ave Chicago 41 Ill
Colson Corp Elyria Ohio
Detroit Trailer Co 481 Beaufait St Detroit 7
Mich

Mercury Mfg Co 4700 W Division St Cal-cago 51 Ill Miami Specialties Co W Trade Rd Troy Ohio Nutting Truck & Caster Co 1201 W Division St Faribault Minn Ohio Galvanizing Mfg Co Ann St Niles Ohio Saginaw Products Corp 68 Williamson St Saginaw Mich Shamrock Trailers & Axle Mfg Co 13447 Schaefer St Detroit Mich Spartan Aircraft Co 1900 N Sheridan Rd Tulsa Okla Standard Forge & Axle Co Hunter Station

Tulsa Okla
Standard Forge & Axle Co Hunter Station
Montgomery 2 Ala "Standard Foshee"
(Lumber)
Superior Metal Products Inc Branson & 18th
TRANSMISSIONS, Auto, Truck and Bus

Superior Metal E. Sts Marion Ind

Sts Marion Ind Thomas Truck & Caster Co 1021 Mississippi River Keokuk Iowa (Low-bed) W & K—See Whitehead & Kales Co Whitehead & Kales Co 55 Haltiner St River Rouge 18 Mich "W & K"

ABC Eastern Corp Box 349 Clarion Pa Aljo—See Modernistic Industries Alma Trailer Co Alma Mich American Coach Co 200 N Michigan St Cassopolis Mich

nderson Coach Co East Tawas Mich ckeye Mobile Homes Inc Box 66 Beaver-lam Ohio Cardinal Industries Inc P O Box 186 Bristol

Champion Home Builder Co 5595 N St Dry-

den Mich
Dixie Queen—See Foster Mfg Co
Dreamhome—See Rollohome Corp
Duo—See Mid-States Corp
Elcar—See Mid-States Corp

Elcar—See Mid-States Corp
Foster Mfg Co P O Box 9006 Shreveport La
"Dixle Queen"
Henslee Mobile Home Mfg Co W Division
St Arlington Tex
Howard Industries Inc 1923 S Jefferson St
Saginaw Mich
Kozy Coach—See Mid-States Corp
Liberty Coach Co Bremen Ind
Luxor-Leffingwell Coach Co 820 Mill St
Brookyille Ind

Luxor-Leffingweil Coach Co eav Mariette Brookville Ind
Marlette Coach Co Vail St Marlette Mich
Mid-States Corp Union City Mich "Duo"
"Elear" "Pan American" "Star" "Terra
Cruiser" "Kozy Coach" "National"
Mobile Trailer Inc South River Rd Marys-

Cruiser" Ave.
Mobile Trailer Inc South River Ru 2011
Wille Mich
Modernistic Industries 1715 W 135th St Gardena Calif "Aljo"
National—See Mid-States Corp
Palace Corp., Flint, Mich.
Pan American—See Mid-States Corp
Prairie Schooner Inc 1503 W Bristol St
Prairie Schooner Inc 1503 Rust Ave.,

Prairie Schooner Inc 1993 W Bristol St Elkhart Ind Raymond Products Co., 1200 Rust Ave., Saginaw, Mich. "Travelo." Rollohome Corp 1515 N Central Ave Marsh-field Wis "Dreamhome" "Rollohome" Roycraft Coach Co., 117 First St., Chesaning, Mich.

Mich.
Schult Corp., 1800 S. Main St., Elkhart, Ind.
Spartan Aircraft Co 1900 N Sheridan Rd
Tulsa Okla "Sparcraft" "Spartan"
Star—See Mid-States Corp
Stewart Coach Industries Inc P O Box 217
Bristol Ind
Terra Cruiser—See Mid-States Corp
Terry Coach Mfg Co 11274 E Ruch St El
Monte Calif
Travelege Trailer Co 11473 Penrose St Sun

Trailer Co 11473 Penrose St Sun

Traveleze Tra
Valley Calif
Travelhome

Valley Calif Travelhome Co of America 9317 Cottage Grove Ave Chicago 19 Ill Travelo-See Raymond Products Co. Trotwood Trailers, Inc., 11 N. Broadway, Trotwood, Ohio. Vagabond Coach Mfg Co 56495 Grand River Ave New Hudson Mich Viking Mfg Co B Ball Rd Anaheim Calif Vindale Mobile Homes Inc Hay Ave Brook-ville Ohio

Whitley Mfg Co P O Box 7 South Whitley

TRANSDUCERS

Sanborn Corp 175 Wyman St Waltham 54 Mass

TRANSFORMERS, Electric

Allis-Chalmers Mfg. Co., Milwaukee 1, Chicago Standard Transformer Corp 350; Addison St Chicago Ill "Stancor" (A

Addison St Chicago III "Stancor" (Auto and radio)
G-E—See General Electric Co
General Electric Co Apparatus Sales Div 1
River Rd Schenectady 5 N Y "G-E"
Kuhiman Electric Co., 1000 26th St., Bay
City, Mich.
Peer Inc 1000 Cross St Benton Harbor Mich
"Peer" and "Pier-Ace"
Pier-Ace—See Peer Inc
Progressive Welder Sales Co 915 Oakland
Ave Pontlac Mich
Stancor—See Chicago Standard Transformer
Corp
Wagner Electric Corp 6400 Plymouth Ave

Corp
Wagner Electric Corp 6400 Plymouth Ave
St Louis 14 Mo
Wet Louis 14 Mo
Wet Stinghouse Electric Corp \$ Gateway Center Pittsburgh 30 Pa

TRANSMISSION LININGS-See Linings, Transmission

TRANSMISSION TOOLS-See Tools, Trans-

(For individual gears see Gears, Transmission)

Clark Equipment Co Transmission Div 1200 Falahee Rd Jackson Mich (Truck and bus) Cotta Transmission Co 2340 11th St Rockford Ill (Heavy duty)

Dana Corp 4100 Bennett Rå Toledo 1 Ohlo
"Spicer-Brown-Lipe" (Bus and truck)
Detroit Transmission Div General Motors
Corp Willow Run Mich (Mailing address
Ypsilanti Mich) "HydraMatic"
Fuller Mig Co Transmission Div Prouty St
Kalamazoo Mich (Truck)
HydraMatic—See Detroit Transmission Div.,
General Motors Corp.
General Motors Corp.
New Process Gear Div Chrysler Corp 500
Plum St Syracuse N V
Plum St Syracuse N V
Rockwell-Standard Corp Transmission &
Axie Div 100 Clark Ave Detroit 32 Mich
Spicer-Brown-Lipe—See Dana Corp
Warner Gear Div., Borg-Warner Corp., 1106
E. Seymour St., Muncie, Ind. (Also automatic.) matic.)

AANSMISSION, Auxiliary (Auto Truck, Bus, Etc.) TRANSMISSION,

Truck, Bus, Etc.)

Cook Bros Equipment Co 3334 San Fernando Rd Los Angeles 65 Calif (Truck)

Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer-Brown-Lipe" (Truck)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo, Mich Sherman Products Inc 3200 W 14 Mile Rd Royal Oak Mich (Tractor)

Spicer-Brown-Lipe—See Dana Corp Truckstell Mfg Co 1437 Union Commerce Bidg Cleveland 14 Ohio (Three speed axle drive power divider for trucks)

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)

Watson Co H S 1316 67th St Emeryville Calif "Watson-Brown Lipe" (For trucks)

Bristol St TRANSMISSIONS, Torque Converter (Auto)

Allison Div General Motors Corp P O Box 894 Indianapolis 6 Ind "Allison Torquatic Drives" (With retarder for trucks) Cotta Transmission Co 340 1ith St Rockford

Torquatic-See Allison Div General Motors Corp

Western Gear Corp 2600 E Imperial High-way Lynwood Calif

TRANSMISSIONS, Variable Speed (Industrial)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich

Kalamazoo Mich
Funk Aircraft Co 1211 W 12th St Coffeyville Kans
Graham Transmissions Inc Menomonee Falls
Wis
Lima Electric Motor Co Findiay Rd Lima
Ohio (Gearshift)
Link-Belt Co Prudential Piaza Chicago 1 Ili
"PIV" "VRD"
Oligear Co 1560 W Pierce St Milwaukee 4
Wis
P. I. V.—See Link-Belt Co.
Reeves Pulley Div Reliance Electric & Engrg
Co 1225 Seventh St Columbus Ind
Salsbury Corp 1161 E Florence Ave Los
Angeles 1 Calif
Speed-Trol—See Sterling Electric Motors Ine
Sterling Electric Motors Inc 5401 Telegraph
Los Angeles 22 Calif "Speed-Trol"
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detrolt 32
Mich

TREADS, Safety

(For bus steps and cab interiors) malun-See American Abrasive Metals

Co
Aluminum Co of America 1501 Alcoa Bidg
Pittsburgh 19 Pa (Aluminum)
American Abrasive Metais Co 660 Colt St
Irvington 11 N J "Alumanum" "Feralun"
Bustin Steel Products Inc Dover N J
"Bustin Firm-Grip"
Feralun—See American Abrasive Metals Co
Standard Products Co 2130 W 110th St Cleveland 2 Ohio

TREATING, Heat

Alpha Industries Inc 615 Center St Logan-port Ind



FULLER MANUFACTURING CO. Subsidiary, Eaton Manufacturing Company Subsidiary, Eaton Manufacturing Kalamaroo 13F, Michigan

Circle 259 on Inquiry Card for more data

TREATING. Heat-continued

American Metal Treatment Co., Spring & Lafayette Sts., Elizabeth, N. J. Brown Corp., 213 Bellevue Ave., Syracuse Brown Corp., 213 Believes
N. Y.
Burgess-Norton Mfg. Co., 731 Peyton St.,

N. X.
Burgess-Norton Mfg. Co., 102.
Geneva, III.
Burke Steel Co 30 Sherer St Rochester 2
N Y
N T.
Drop Forging & Mfg. Co., 207 12th

N Y Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
Commercial Steel Treating Corp., 6100 Tireman Ave., Detroit 4, Milch.
Deflance Screw Machine Products Div. of Serrick Corp., 733 Perry St., Deflance Ohio.
Hartford Machine Screw Co., P. O. Box 1440 Hartford, Conn.

Hartford, Conn. Herman Machine & Tool Co., Kent Rd., Tall.

madre, Ohio.

Induction Heating Corp., 181 Wythe Ave.,

Brooklya 11, N. X.

Interstate Drop Forge Co., 4051 N. 27th St.,

Milwaukee 16 Wis

Ladish Co., 5481 S. Packard Ave., Cudahy. Wis.

Wis.

Lundburn Steel Co., Watervliet, N. Y.

Lundberg Screw Products Co., P. O. Box 1318, Lansing 4, Mich.

Michigan Plating & Stamping Co 740 Ann St N W Grand Rapids Mich

N R C Equipment Corp 160 Charlemont St Newton 61 Mass

Porter Forge and Furnace, Inc., 74 Foley St., Somerville 43, Mass.

Pressed Metals of America Inc Port Huron Mich

Mich
Ross Engrg Div Midland-Ross Corp J O
444 Madison Ave New York 22 NY (Magnesium and aluminum)
Spring Div., Borg-Warner Corp., Madison
St. & 25th Ave., Bellwood, III.
Thurner Heat Treating Co., 809 W. National
Ave., Milwaukee, Wis.
Vincent Steel Process Co., 2424 Bellevue
Ave., Detroit 7, Mich.
Woodworth Co., N. A., 1300 E. Nine Mile
Rd., Detroit 20, Mich.

TRESTLES-See Horses and Trestles

TRIMMERS' CLIPS—See Fasteners Molding TRUCK CONVEYORS, FLOOR TYPE — See and Trim Conveyors, Truck and Trailer (Floor Type)

TRIMS, Metal (Auto)

(See also Handles, Car Door; Hinges, Door [Auto]; Locks, Door [Auto]; Moldings)

Moidings)

American Name Plate & Mfg Co 4254 W

Arthington St Chicago 24 Ill (Decorated)

Applied Arts Corp 365 Lane Ave S W Grand

Rapids 4 Mich

Auto-Lite—See Electric Auto-Lite Co Wood-

stock Div Croname Inc 6217 Howard St Chicago 48 III Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"
Etched Products Corp 39-01 Queens Blvd
Long Island City 4 N Y
Firestone Steel Products Co 1600 Firestone
Parkway Akron 1 Ohio
Gem Mfg Co 2535 S State St Chicago 16 III
(Fender hood and headlight)
Ionia Mfg Co Div of Mitchell-Bentley Corp
121 S Dexter St Ionia Mich
Perfection Automotive Products Corp 925 W
Elizabeth St Detroit 1 Mich (Chrome body
and fender)
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio (Stainless)
Regal Motor Products Inc 6325 Grand River
Ave Detroit 8 Mich
Reynolds Metals Co 37d & Grace Sts Richmond 19 Va (Aluminum)
Roll Formed Products Co 3765 Oakwood Ave
Youngstown O
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United Metal Craft Co 800 Lowell St Ypsi-

Metal Craft Co 800 Lowell St Ypsilanti Mich

Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

TRIMS, Upholstery (Auto)

Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich Monadnock Mills 1977 First Ave San Lean-dro Calif National Automotive Fibres Inc 19925 Hoover

Ave Detroit 5 Mich un Rubber Co Industrial Products Div 9 Fairview Ave Barberton Ohio (Vinyl plastic foam trim pads) Sun

TROLLEYS. Monorail

American Monorall Co., 13107 Athens Ave.,

American Monorail

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.

Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich

Buschman Co E W Spring Grove & Clifton Aves Cincinnail 32 Ohio
Chisholm-Moore Hoist Div Columbus Mc-Kinnon Chain Corp Freemont Ave Tonawanda N Y "Matchless" "Moore"
Coffing Hoist Div Duff-Norton Co 890 Walter St Danville Ill (I-beam)
Curtis Mig Co Pneumatic Div 1927 Kienlen Ave St Louis 20 Mo
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich Euclid Crane & Hoist Co., Euclid, Ohio. Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee 30, Wis. "P&H."
Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa. Industrial Crane & Hoist Ingersoll Products Div Borg-Warner Corp 1536 8
Paulina St Chicago 8 Ill (Electric)
Louden Machinery Co., 1102 West Ave., Fairfield, Ia.
Matchless—See Chisholm-Moore Hoist Div Moore—See Chisholm-Moore Hoist Div Northern Engineering Works 210 Chene St Detroit 7 Mich Ohio Hoist Mig Co 321 S Beaver St Lisbon Ohio

Onio Hoist Mfg Co 321 S Beaver St Lisbon Onio
P & H—See Harnischfeger Corn,
Falmer-Bee Co Opdyke Rd & Grand Trunk
RR Bloomfield Hills Mich
R & M—See Robbins & Myers Inc
Richards-Wilcox Mfg, Co., Third St. & C. B.
& Q. R. R. Tracks, Aurora, III.
Robbins & Myers, Inc., Lagonda Ave.,
Springfield, Ohio. "R & M."
Saginaw Products Corp., 6? Williamson St.,
Saginaw Mich
Shepard Niles Crane & Hoist Corp Montour
Falls N Y
Webb Co Jervis B 8925 Alpine Ave Detroit 4
Mich.

Whiting Corp., 157th & Lathrop Sts., Har-vey, Ill.

TRUCK BODY PARTS-See Parts, Truck

TRIMMING PANELS—See Panels, Uphol- TRUCK FLOOR COVERINGS—See Coverings, stered

TRUCK FLOOR PLATES—See Plates, Floor (Truck and Bus)

TRUCK LOADERS (ELEVATING GATE)—See Loaders, Truck (E TAIL. (Elevating Tailgate)

TRUCK LOADING RAMPS - See Ramps, Truck Loading

TANKS-See Tanks, Trailer and

TRUCKS, Factory (Hand)

ASI-See Angle Steel Inc Aerol Co 1731 Workman St Los Angeles 31

merican Pulley Co., 4200 Wissahlckon Ave.. Philadelphia 29, Pa ngle Steel Inc 56 Oak St Plainwell Mich "ASI"

"ASI"

Armstrong Truck & Caster Div. of North
Wales Foundry Co.. North Wales, Pa.
Automatic Transportation Co Div Yale &
Towne Mig Co 101 W 87th St Chicago 20 III
Barrett-Cravens Co 630 Dundee Rd Northbrook III
Bernard Franklin Co Hedley & Bath Sts
Philadelphia 37 Pa
Bernard Gloeker North East Co Robinson &
Wall Sts North East Pa.
Bishman Mig Co Osseo Minn "Start Cart"
(Battery)

(Battery)
Blitz Electric Co 5713 Wentworth Ave Chicago 21 Ill (Battery)
Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich

troit 16 Mich Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox." Burdox—See Burdett Oxygen Co. of Cleve-

"Burdox."
Burdox—See Burdett Oxygen Co. of Cleve-land, Inc.
Buschman Co E W Spring Grove & Clinton Aves Cincinnati 12 Ohio "Wheel-lit" Cam Tool Co 288 22nd St Oakland 12 Calif "Ormsby" Clark Co Geo P 35 Canal St Windsor Locks

Clark Equipment Co Industrial Truck Div Battle Creek 85 Mich "Powrworker" Clinton Froducts Co 701 Tecumseh Rd Clin-ton Mich

Colon Co Leroy L 2916 N Cicero Ave Chicago

41 Ill
Coison Corp., Elyria, Ohio.
Continental-Diamond Fibre Corp Newark 10
Del "Diamond" (Fibre)
Diamond—See Continental-Diamond Fibre

Corp ico Co 200 S W 16th St Des Moines 5 Iowa

Dico Co 200 S W 16th St Des Moines 5 Iowa Dumptor-See Kochring Co.
Durlach Can & Iron Works 360 Ninth St Brooklyn 15, N. Y.
EWC-See Electric Wheel Co.
Electric Wheel Co Quincy III "EWC"
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Fairbanks Co., 293 Lafayette St., New York 2, N. Y.

Fairbanks Co., 293 Latayette St.,
3, N. Y.
FloorMaster—See Lewis-Shepard Products
Inc.
French & Hecht Div Kelsey-Hayes Co 3rd
& Farnam Sts Davenport Iowa
Hamilton Caster & Mfg Co 1517 Dixle Highway Hamilton Ohio
Hitco—See Howell Industrial Truck Co

HIICO—See Howell Industrial Truck Co Howell Industrial Truck Co 1983 Erle Cliff St Cleveland 7 Ohio "Hitco" Jak-Tung—See Thomas Truck & Caster Co Jakes Foundry Co P O Box 1275 Nashville

Tenn

Tenn
Kennett—See National Vulcanized Fibre Co
Koehring Co., 3026 W. Concordia Ave., Milwaukee 10. Wis. "Dumptor."
Lanco—See Lansing Co
Lansing Co 603 N Cedar St Lansing 3 Mich

"Lanco"
Lanco Wayne Ave Youngstown
Ohio
Lewis Co G B 426 Montgomery St Watertown
Wis (Wood and plastic)
Lewis-Shepard Products Inc 1050 Walnut St
Watertown Mass "FloorMaster"
Magcoa-Tobey—See Magnesium Co of Amerfee.

Ica Magline Inc 952 Murray Rd Pinconning Mich "Magliner"
Magnesium Co of America 5222 Indianapolis Blvd East Chicago Ind "Magcoa-Tobey" Mercury Mfg Co 4700 W Division St Chicago 51 Ill National Vulcanized Fibre Co Maryland Ave & Beech Sts Wilmington 99 Del "Kennett" & "National" (Fibre)
Nutting Truck & Caster Co, 1201 W Division St Farihault Minn
Orangeville Mfg Co Orangeville Pa

St Faribault Minn
Orangeville Mfg Co Orangeville Pa
Ormsby—See Cam Tool Co
Powrworker—See Clark Equip Co
Rapids-Standard Co Rapistan Bldg Grand
Rapids 2 Mich "Rapistan"
Raymond Corp 151 Madison St Greene N Y
"Raymond Walkie" (Battery operated)
Rol-A-Lift—See Skarnes Engrg & Supply
Inc

Inc.

Rush Mfg Co E S 499 San Fernando Rd
Los Angeles 31 Calif
Sabin Machine Co., 6536 Carnegie Ave..
Cleveland 3, Ohlo.

Sage Equipment Co 39 Essex St Buffalo 13 N Y Saginaw Products Corp., #8 Williamson St.,

Saginaw Products Corp., 68 Williamson St., Saginaw, Mich., Selma Trailer & Mfg Co 2111 Highway 99 Selma Calif Skarnes Engrg & Supply Inc 2907 E Frank-lin Ave Minneapolis & Minn "Rol-A-Lift" Spring Bearing—See West Bend Equipment Corp. Start Cart—See Bishman Mfg Co

Thomas Truck & Caster Co., 1021 Missis-sippi River, Keokuk, Iowa, "Jak-Tung," "Thomas."

Thomas."

Townotor Corp., 1228 E. 152nd St., Cleveland 16, Ohio. (Battery operated.)

Tubar—See Uhrden Inc
Tug-Bar—See Western Gear Works
Turner System—See Factory Service Co.
Uhrden Inc 508 Grant St Dennison Ohio
"Tubar"

Wellington Machine Co 133 DeWolf St Wellington O

West Bend Equipment Corp., 216 S. Water St., West Bend Wis "Spring Bearing." Western Gear Corp 2600 E Imperial Highway Lynwood Calif "Tug-Bar" (Motorized for moving cars and trucks in warehouses garages etc)

Wheel-it-See E W Buschman Co

Yale & Towne Mfg Co Yale Materials Han dling Div 11000 Roosevelt Blvd Philadel phia 15 Pa

TRUCKS, Fire (Industrial)

Ajax—See Safety Fire Extinguisher Co Alfite—See American-La France Corp Alfoam—See American-LaFrance Corp American-LaFrance Corp 157 E LaFrance St Elmira N Y "Alfite" "Arctic" "Chal-lenger" "Foamite" lenger" "Foamite" Arctic—See American-LaFrance Corp

Cardox Corp., 307 N. Michigan Ave., Chicago

Cardox Corp., 307 N. SHORMAN.

1. III. (CO2)
Challenger—See American-LaFrance Corp
Floamite—See American-LaFrance Corp
Flrsch & Sons Co 1308 35th St Kenosha Wis
Safety Fire Extinguisher Co 293 Seventh
Ave New York 1 N Y "Ajax"
Seco Engrg & Mfg Inc 1300 W Fort St Detroit 26 Mich
Yankee Motor Bodies Corp 1224 E Olympia
St Los Angeles 2 Calif

TRUCKS, Fire (Including Equipment)

FRUCKS, Fire (Including Equipment)
American-LaFrance Corp 157 E LaFrance
St Elmira N Y (Gasoline)
Crown Coach Corp 2500 E 12th St Los Angeles 21 Calif
FWD—See Four Wheel Drive Auto Co.
Federal Motor Truck Co 834 N Seventh St
Minneapolis 11 Minn
Four Wheel Drive Auto Co., E. 12th St.
Clintonville, Wis. "FWD."
Gichner Iron Works Inc Fred S 1214 24th
St N W Washington 7 D C
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.

burg, Pa.
Howe Fire Apparatus Co 1402 W 22nd St
Anderson Ind Mack Trucks Inc 1355 W Front St Plainfield

Maxim Motor Co., 170 Wareham St., Middle-Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave.,
Roanoke, Va.
Pirsch & Sons Co., Peter, 1308 35th St.,
Kenosha, Wis.
Seagrave Corp 2000 S High St Columbus
Ohio
Universal Fire Apparatus Corp Ft of Wheatland Ave Logansport Ind
Walter Motor Truck Co., 1001 Irving Ave.,
Ridgewood, Brooklyn 27. N. Y.
Ward-LaFrance Truck Corp Elmira N Y

TRUCKS, Industrial (Diesel)

Clark Equipment Co Ross Carrier Div 250 Miller Rd Benton Harbor Mich "Clark-Ross" (Straddle type) Hyster Co 2900 NE Clackamas St Portland 8 Ore

TRUCKS, Industrial (Electric)

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Dynamotive" "Transporter" Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook III

Barrett-Cravens Co 630 Dundee Rd North-brook III Clark Equipment Co Industrial Truck Div Battle Creek 85 Mich "Clarkat" Clarkat—See Clark Equip Co Cushman Motor Works Inc 920 N 21st St Lincoln Nebr

Custer Specialty Co 139 Bradford St Dayton 10 Ohlo Dynamotive-See Automatic Transportation

Co Hitco—See Howell Industrial Truck Co Howell Industrial Truck Co 1083 Eric Cliff St Cleveland 7 Ohio "Hitco" Kalamazoo Mfg Co 1827 Reed St Kalamazoo

Mich Lewis-Shepard Products Inc 1050 Walnut St Watertown 72 Mass "ToteMaster" Mercury Mfg Co 4700 W Division St Chi-cago 51 III Moto-Truc Co 1953 E 59th St Cleveland 3

Ohio Express-See Rocky Mountain Steel

Pony Express—See Rucky Additional Products, Inc.
Raymond Corp 151 Madison St Greene N Y Rocky Mountain Steel Products, Inc 1753
Blake Ave Los Angeles 31 Calif "Pony Expressa." Express."
ToteMaster — See Lewis-Shepard Products

ToteMaster — see Inc.
Inc
Transporter—See Automatic Transportation
Co
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Bivd Philadelphia 15 Pa

TRUCKS, Industrial (Gasoline)

Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1

Wis
Automatic Transportation Co Divs Yale &
Towne Mfg Co 101 W 87th St Chicago 20
Ill "Dynamotive"
Clark Equipment Co., Industrial Truck Div.,
Battle Creek 85, Mich. "Tructractors."
Clark Equipment Co Ross Carrier Div 250
Miller Rd Benton Harbor Mich "ClarkDoor" (Streaddie type) Miller Rd Benton Hs Ross" (Straddle type)

Cushman Motor Works Inc 920 N 21st St Lincoln Nebr Dynamotive—See Automatic Transportation Co

Gerlinger Carrier Co Lyle & Birch Sts Dallas Ore (Straddle) Getman Bros Mfg Div South Haven Mich "Getman" "Scoot-Crete" (Dump) "HH" Mfrs 2224 Cerritos Ave Ton

"HH" Mfrs 2224 Cerritos Ave Long Beach 6 Calif
Hitco—See Howell Industrial Truck Co
Hough Co Frank G 801 Sunnyside Ave Libertyville III "Payloader"
Howell Industrial Truck Co 1083 Erie Cliff
St Cleviand 7 Ohio "Hitco"
Hyster Co 2980 N E Clackamas St Portland

8 Ore Kalamazoo Mfg Co 1827 Reed St Kalamazoo Mich Knickerbocker Co 603 Liberty St Jackson

Knickerbocker Co 603 Liberty St Jackson Mich "Truck-man"
Kwik-Mix Co 235 W Grand Ave Port Washington Wis "Moto-Bug"
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Moto-Bug—See Kwik-Mix Co
Payloader—See Frank G Hough Co
Ross Carrier Co., Second & Miller Sts..
Benton Harbor, Mich. (Also gas-electric.)
Scoot-Cree—See Getman Bros Mfg Div
Truck-man—See Knickerbocker Co
Tructractors—See Clark Equipment Co., In-

Tructractors—See Knickernoeker Co., In-dustrial Truck Div., Yale & Towne Mfg Co Yale Materials Han-dling Div 11000 Roosevelt Blvd Philadel-phia 15 Pa (Also LP-Gas)

Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wls Clark Equipment Co Industrial Truck Div Battle Creek 85 Mich "Yardlift" Hyster Co 2900 NE Clackamas St Portland 8

Hyster Co 2010
Ore
Oliver Corp A B Farquhar Div 142 N Dune
St York Pa
Towmotor Corp 1226 E 152nd St Cleveland 10
Ohlo

TRUCKS, Lift (Electrically Operated)

Economy Engrg Co 4511 W Lake St Chicago 24 Ill "Walkie-Worklifter"

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 27
Ill "Automatic" "Docker" "Dynamotive" "Elbolitit" "Skylift" "Transrider" "Transvery" "Transporter" "Transtacker"
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook III
Big Joe Mfg Co 900 W Jackson Bivd Chicage 7 III
Clark Equipment Co Industrial Truck Div

7 III
Clark Equipment Co Industrial Truck Div
Battle Creek 85 Mich "Clark Elec-Carloader" "Clark Elec-Clipper" "Clark ElecTruckloader" "Clark Elec-Utilitruc"
"Clarklift"—See Clark Equipment Co
Docker—See Automatic Transportation Co
Dynamotive—See Automatic Transportation

24 III "Walkie-Worklifter"
Elbolift-See Automatic Transportation Co
Elwell-Parker Electric Co 4205 St Clair Ave
Cleveland 2 Ohio (Also gas-electric)
Giogetter—See Revolvator Co
Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co 1033 Eric Cliff
St Cleveland 7 Ohio "Hitco"
JackLift-See Lewis-Shepard Products Inc
Jackstacker—See Lewis-Shepard Products.

Inc.
Lewis-Shepard Products Inc 1050 Walnut St
Watertown Mass ("Jack Lift" "Jackstacker" "Power Master" "SpacerMaster"
also gas-electric!
Lift Trucks Inc Spring Grove St Cincinnati 1 Ohio
Mercury Mfg Co 4700 W Division St Chicago 51 III
Moto-Truc Co 1953 E 59th St Cleveland 3
Obio

Moto-Truc Co Ohio Ohio See Portable Lift Trucks Inc Ohio Ohio-See Portable Lift Trucks Inc 2861 Sidney Ave Cincinnati 25 Ohio "Ohio" Power Master—See Lewis-Shepard Products

Inc
Raymond Corp 151 Madison St Greene N T
Revolvator Co U S Route 1 at 86th St North
Bergen N J "Gogetter"
Skylift-See Automatic Transportation Co
SpaceMaster—See Lewis-Shepard Products

Transrider — See Automatic Transportation

Transporter-See Automatic Transportation

Transtacker-See Automatic Transportation Co Transveyor—See Automatic Transportation

Co Tubarlifts—See Uhrden Inc Uhrden Inc 508 Grant St Dennison Ohio "Tubarlifts"

"Tubarlifts" —See Economy Engrg Co Yale & Towne Mfg Co Yale Materials Han-dling Div 11000 Roosevelt Blvd Philadel-phia 15 Pa.

TRUCKS, Lift (Gasoline Powered)

Allis-Chalmers Mfg Co Engine Materia Handling Div 1135 S 70th St Milwaukee Wis (Also LP-Gas) Material Tractor Corp Churubusco Ind

Wis (Also LP-Gas)
American Tractor Corp Churubusco Ind
"Terra-Lift"
Automatic Transportation Co Div of Yale &
Towne Mfg Co 101 W 87th St Chicago 20
Ill "Dynamotive"
Baker Industrial Trucks Div of Otis Elevator

Baker

Baker Industrial Trucks Div of Otts Elevator
Co 8006 Baker Ave
Clark Equipment Co Industrial Truck Div
Battle Creek 85 Mich "Clark Carloader"
"Clark Clipper" "Clark Trucloader" "Clark
Utilitrue" "Clark Yardlift"
Dynamotive—See Automatic Transportation
Co

Co rickson Power Lift Trucks Inc St Anthony Blvd & University Ave N E Minneapolis 18 Minn (Fork and platform types) erlinger Carrier Co Lyle & Birch Sts Dallas Err

"HH" Mfrs 2224 Cerritos Ave Long Beach

Ore
"HH" Mfrs 2224 Cerritos Ave
6 Calif
Hi Duty—See Transitier Truck Co
Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co
Howell Industrial Truck Co
St Cleveland 7 Ohio "Hitco"
Hyster Co 2980 N E Clackamas St Portland
8 Ore
Kwik-Mix Co 235 W Grand Ave Port Washington Wis "Moto-Bug"
Lamson Mobility Corp 355 S E Main St Portland 14 Ore "Mobility"
Lewis-Shepard Products Inc 1050 Walnut St
Watertown Mass "Spacemaster" (Gaselectric)

Watertown Mass "Spacemaste:
electric Lift-O-Krane—See Silent Hoist & Crane Co
Liftruk—See Silent Hoist & Crane Co
MacDonald—See Peterbilt Motors Co.
Mobilift—See Lamson Mobilift Corp
Moto-Bug—See Kwik-Mix Co
R Farquhar Div 142 N Duke

Mobilift—See Lamson Mobilit Corp Moto-Bug—See Kwik-Mix Co Oliver Corp A B Farquhar Div 142 N Duke St York Pa Ottawa Steel Div Young Spring & Wire Corp 435½ S Main St Ottawa Kans "Ot-tawa Tracto-Lift" Peterbili Motors Co., 107th Ave. & McAr-thur Bivd., Oskland, Calif. "MacDonald." Silent Holst & Crane Co 841 63rd St Brook-lyn 20 N Y "Liftruk" & "Lift-O-Krane" Spacemaster—See Lewis-Shepard Products, Inc.

Inc.
Terra-Lift-See American Tractor Corp
Towmotor Corp 1226 E 152nd St Cleveland
10 Ohio (Also LP-Gas)
Transitier Truck Co 5475 N Lagoon Ave
Swan Island Portland 11 Ore "Hi Duty"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Bivd Philadelphia 15 Pa

TRUCKS, Lift (Hand Operated)

Automatic Transportation Co Divs Y Towne Mfg Co 101 W 87th St Chic Ill "Transporter" "Transveyor" (1) (zed)

Barrett-Cravens Co 630 Dundee Rd North-brook III Big Joe Mfg Co 900 Jackson Blvd Chicago Big Jo

Clark Co Geo P 35 Canal St Windsor Locks

Clark Co Geo P 35 Canal St Windsor Locks Conn
Conn
Colson Corp Elyria Ohio
Excelsior Plimptruck Co 796 Atlantic St
Stamford Conn "Plimptruck" (Hydraulic)
Factory Service Co 4615 N 21st St Milwaukee
9 Wis "Turner System"
FootLift—See Lewis-Shepard Products Inc
Grand Specialties Co 3113 W Grand Ave
Chicago 22 Ill "Shop Caddy" (Hydraulic)
Hamilton Caster & Mig Co 1517 Dixie Highway Hamilton Ohio
JackLift—See Lewis-Shepard Products Inc
Lewis-Shepard Products Inc 1050 Walnut St.
Watertown Mass "JackLift" "FootLift"
(Hydraulic: "JackLift" & "SpeedLift"
"RedLift" "QuikLift" mechanical)
Plimtruck—See Excelsior Plimtruck Co
QuikLift—See Lewis-Shepard Products Inc
Red Giant—See Revolvator Co
Red -Lift—See Lewis-Shepard Products Inc
Revolvator Co U S Route 1 at 86th St North
Bergen N J "Red Giant"
Shop Caddy—Grand Specialties Co

TRUCKS, Lift (Hand Operated) -continued

SpeedLift—See Lewis-Shepard Products Inc Transporter—See Automatic Transportation

Transveyor-See Automotic Transportation

Co
Turner System—See Factory Service Co
Weld-Blit—See West Bend Equipment Corp
Wellington Machine Co 138 DeWolf St Wellington O (Hydraulic)
West Bend Equipment Corp., 216 S Water St
West Bend Wis "Weld-Blit"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Rooseveit Blvd Philadelphia 15 Pa (Motorized)

TRUCKS, Motor (Diesel)

American Coleman Co Littleton Colo
Autocar Div White Motor Co Lancaster Ave
Exton Pa
Available Truck Co Div of Crane Carrier
Corp P O Box 5008 Tulsa Okla
Brockway Motor Trucks Div of Mack Trucks
Inc 106 Central Ave Cortland N Y
Cline Truck Co 3501 Gardner Ave Kansas
City 20 Mo

Cline Truck Co 3591 Gardner Ave Kansas Cliv 20 Mo Cook Bros Equipment Co 3334 San Fernando Rd Los Angeles 65 Calif Corbitt Co Parham St Henderson N C Dart Truck Co 2623 Oak St Kansas City 8 Mo (Off-highway) Diamond T Motor Car Co 4401 W 26th St Chicago 23 Ill Dumptor-See Parsons Co Duplex Div Warner & Swasey Co Hazel St Lansing 4 Mich Euclid Div General Motors Corp 1361 Chardon Rd Cleveland 17 Ohio (Dump, for off the-highway service)

don Rd Cleveland 17 Ohio (Dump, for off the-highway service)
FWD—See Four Wheel Drive Auto Co.
Federal Motor Truck Co 834 N 7th St Minneapolis 11 Minn
Four Wheel Drive Auto Co., E. 12th St.,
Clintonville, Wis. "FWD."
Freightliner Corp 5400 N Basin Ave Portland
Ore "White-Freightliner" (Sole distributors
White Motor Co 842 E 73th St Cleveland
1 Ohio)
GMC Truck & Coach Div General Motors
Corp 660 South Blvd E Pontiac 11 Mich
Hendrickson Mfg Co 8001 W 47th St Lyons
III

Ill
International Harvester Co., Harvester Bidg..
180 N. Michigan Ave., Chicago 1, Ill
Kenworth Motor Truck Co 8301 E Marginal Way Seattle 8 Wash
Mack Trucks Inc 1355 W Front St Plainfield

NJ Oshkosh Motor Truck Inc 2300 Oregon St Oshkosh Wis Parsons Co Newton Iowa "Dumptor" (For off-highway service) Peterbilt Motors Co 107th Ave & MacArthur Blyd Oskland 5 Calif Reo Div White Motor Co 1331 S Washing-ton Ave Lansing 20 Mich Sicard Industries Inc 753 W Main St Water-town N Y (Rotary snow plows and street flushers)

flushers)
Waiter Motor Truck Co 1001 Irving Ave
Ridgewood Brocklyn 27 N Y (Also snow
fighters)
Ward-LaFrance Truck Corp Elmira N Y
White-Freightliner—See Freightliner Corp
White Motor Co., 842 E. 79th St., Cleveland

TRUCKS, Motor (Gasoline)

American Coleman Co Littleton Colo Autocar Div White Motor Co Lancaster Ave

American Coleman Co Littleton Colo
Autocar Div White Motor Co Lancaster Ave
Exton Pa
Available Truck Co Div of Crane Carrier
Corp P O Box 5008 Tulsa Okla
Brockway Motor Trucks Div of Mack Trucks
Inc 106 Central Ave Cortland N Y
Champion Carriers Inc 65 N Madison St
(P O Box 2651) Tulsa Okla (Off-highway)
Chevrolet Motor Div of General Motora Corp
General Motors Bidg Detroit 2 Mich
Cline Truck Co 3501 Gardner Ave Kansas
City 20 Mo
Cook Bros Equipment Co 3334 San Fernando

City 20 Mo
Cook Bros Equipment Co 3334 San Fernando
Rd Los Angeles 65 Calif
Corbitt Co Parham St Henderson N C
Crown Coach Corp 2500 E 12th St Los Angeles El Calif
Dart Truck Co 2623 Oak St Kansas City 8
Mo (Off-highway)
Diamond T Motor Car Co.. 4401 W. 26th St..
Chicaso 28, 111
Divco Truck Div Divco-Wayne Corp 22000
Hoover Rd Detroit 5 Mich (Door to door
delivery) delivery)

delivery)
Dodge Div Chrysler Corp 7900 Joseph Campau Ave Detroit H Mich
Duplex Div Warner & Swasey Co Hazel St
Lansing 4 Mich
Esco Motor Co c/o Exhibitor's Service Co
St Helens St McKees Rocks Pa
FWD—See Four Wheel Drive Auto Co.

Federal Motor Truck Co 834 N 7th St Minneapolis 11 Minn
Ford Div Ford Motor Co Rotunda Div at
Southfield Ave Dearborn Mich
Four Wheel Drive Auto Co E 12th St Clintonville Wis "FWD"
GMC Truck & Coach Div General Motors
Corp 660 South Bivd E Pontiac 11 Mich
Hendrickson Mfg Co 8001 W 47th St Lyons

III International Harvester Co., Harvester Bidg., 180 N. Michigan Ave., Chicago 1, III. Kenworth Motor Truck Co 8501 E Marginal Way Seattle 8 Wash MacDonald—See Peterbilt Motors Co.

Mack Trucks Inc 1855 W Front St Plainfield N J

Mack Trucks inc 1355 W Front St Plainneld N J
Marmon-Herrington Co 1511 W Washington St Indianapolis 7 Ind
Milford Crane & Machine Co 143 Buckingham Ave Milford Conn (Crane-truck)
Oshkosh Motor Truck Inc 2300 Oregon St Oshkosh Wis
Peterbilt Motors Co 107th Ave & MacArthur Blvd Oakland & Calif "Peterbilt" "Mac-Donald" (Low-body)
Pontiac Motor Div General Motors Corp Pontiac 11 Mich
Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich
Sleard Industries Inc 753 W Main St Watertown N Y (Rotary snow plows and street flushers)

Sicard Industries Inc 753 W Main St Water town N Y (Rotary snow plows and street flushers) Studebaker-Packard Corp 635 S Main St South Bend 27 Ind Walter Motor Truck Co 1001 Irving Ave Ridgewood Brooklyn 27 N Y (Also snow

Walter motors, Ridgewood Brooklyn 27 N I tons fighters)
Ward-LaFrance Truck Corp Elmira N Y
White Motor Co., 842 E. 79th St., Cleveland 1. Ohio.
Willys Motors Inc 940 N Cove Blvd Toledo 1 Ohio (Also Jeeps station wagons and utility vehicles)
Wolf Engrg Corp 1201 Main St Dallas Tex "Wolfwagon"

TRUCKS, Motor (LP-Gas)

Brockway Motor Trucks Div of Mack Trucks Inc 106 Central Ave Cortland N Y Cline Truck Co 3501 Gardner Ave Kansas City 20 Mo International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ili

TRUCKS, Oven

HUCKS, Uven

Hitco—See Howell Industrial Truck Co
Howell Industrial Truck Co 1083 Erls Cliff
St Cleveland 7 Ohio "Hitco"
K&B—See Kirk & Blum Mfg. Co.
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Ross Engrg Div Midland-Ross Corp J O
444 Madison Ave New York 22 N Y
Young Bros Co 1831 Columbus Rd Cleveland
13 Ohio

TRUCKS, Special Purpose

FRUCKS, Special Purpose
(Dump, crane, bale, roll, etc.)

American Fulley Co 4200 Wissahlckon Ave
Philadelphia 29 Pa
Available Truck Co Div of Crane Carrier
Corp P O Box 5008 Tulsa Okla
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio
(Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook III
Bennett-See John Wood Co Bennett Pump
Div
Clark Co., Geo, P., 35 Canal St., Windsor

Bennett—See John Wood Co Bennett Pump Div Clark Co., Geo, P., 35 Canal St., Windsor Locks, Conn Colson Corp., Elvria, Ohio Dico Co 200 S W 16th St Des Moines 5 Iowa Economy Engrg Co 4511 W Lake St Chicago 24 Ill (Hand drum) Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio Ernst Inc Chas K 1001 E Ferry St Buffalc N Y "Ernst Drumoblie" (Drum and barrel) Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System" Fairbanks Co 393 Lafayette St N Y 3 N Y (Barrel) Gasboy—See Wm M Wilson's Sons Inc Hitco—See Howell Industrial Truck Co Howell Industrial Truck Co Howell Industrial Truck Co 1083 Erie Cliff St Cleveland 7 Ohio "Hitco" Hyster Co 2980 N E Clackamas St Portland B Ore

8 Ore
Independent Iron Works Inc 8th & Pine Sts
Oakland 20 Calif
Kalamazoo Mfg Co 1827 Reed St Kalamazoo
Mich "Epediter" (Hydraulic and hand)
Mahon Co R C 6565 E Eight Mile Rd Detroit
14 Mich (Core rack)
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Morse Mfg Co 727 W Manlius St East Syracuse N Y (Drum)

Nutting Truck & Caster Co 1201 W Division St Faribault Minn (Barrel) Orangeville Mfg Co Orangeville Pa Raymond Corp 151 Madison St Greene N H Sabin Machine Co 6536 Carnegle Ave Cleveland 3 Ohio (For drums, colls, boxes, etc) Tubar Dumpers—See Uhrden Inc Turner Bystem—See Pactory Service Co. Uhrden Inc 508 Grant St Dennison Chio "Tubar Dumpers," (Hand and electric drum and barrel)
Wellington Machine Co 133 DeWolf St Wellington O

Wellington Machine Co 100 Devon Se. Wellington O West Bend Equipment Corp 216 S Water St West Bend Wis (Drum and barrel) Wilson's Sons Inc Wm M 8th St & Franconia Ave Lansdale Pa "Gasboy". Wood Co John Bennett Pump Div Broadway & Wood Sts Muskegon Mich "Bennett"

(Drum)

Xpediter—See Kalamazoo Mfg Co

TRUNK GUARDS—See Guards, Radiator Grille, Fender and Trunk

TUBE BENDERS-See Benders, Tube TUBE BENDINGS-See Bendings, Tubular

TUBE FLARING MACHINES—See Machines, Tube Flaring

UBE FLARING TOOLS-See Tools, Tube Flaring

TUBE MAKING MACHINES—See Machines
Tube Making

TUBES, IGNITION CABLE - See Conduit, Flexible Car Wiring

TUBES, Inner

Airlox—See Poison Rubber Co
Armstrong-Norwalk Rubber Corp Glover Ave
Norwalk Conn "Armstrong" & "Norwalk"
Armstrong Rubber Co 475 Elm St West
Haven 16 Conn
Carlisle Tire & Rubber Div Carlisle Corp
621 N College St Carlisle Pa Century—See Mansfield Tire & Rubber Co
Champion—See Poison Rubber Co
Cooper Tire & Rubber Co. Lima & Western
Aves., Findlay, Ohio.
Corduroy Rubber Co Fuller Ave & G T
Tracks, Grand Rapids 1 Mich
Dayton Rubber Co 2442 Riverview Ave Dayton Ohio "Dayton" "Thorobred"
Denman Rubber Mig Co Warren Ohio
Diamond Rubber Co Div of B F Goodrich
Co 500 S Main St Akron 18 Ohio
Dunlop Tire & Rubber Corp Sheridan Dr &
River Rd Buffalo 5 N Y
Durkee-Atwood Co 215 Seventh St N E
Minneapolis 13 Minn

Tire & Rubber Co 1200 Firestone

River Rd Buffalo 5 N T
Durkee-Atwood Co 215 Seventh St N E
Minneapolis 13 Minn
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohio "Life Protector"
Fisk Tire Co Div of U S Rubber Co 1230 Ave
of the Americas New York 20 N Y
Gates Rubber Co., 299 S. Broadway, Denver
17. Colo. "Gates Vulco"
General Tire & Rubber Co., Englewood &
Holmes Ave., Akron, Ohio.
Goodrich Tire Co B F 500 S Main St Akron
Ohio

Goodrich The Co Rubber Co., E. Market St. Akron 16, Ohio.

Inland Rubber Corp 515 Newman St Mansfield Ohio.

field Ohlo
Kelly-Springfield Tire Co P O Box 300 Cumberland Md
Laher Tire & Rubber Co of Calif 26th &
Magnolia Sts Oakland Calif "Mustang"
Lee Rubber & Tire Corp., Conshohocken, Pa.
Life Protector—See Firestone Tire & Rubber

McCreary Tire & Rubber Co Box 700 Indiana

McCreary Tire & Rubber Co Box 700 Indiana Pa Mansfield Tire & Rubber Co 515 Newman St Mansfield Ohio "Century" "Mansfield" Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio. Mohawk Rubber Co., 1235 Second St., Akron 6, Ohio. Mustang—See Laher Tire & Rubber Co of Celif

Calif rwalk-See Armstrong-Norwalk Rubber No

Norwalk—See Armstrong Norwalk—See Pennsylvania Tire Co Pennsylvania Tire Co P O Box 377 Mansfield Ohio "Penn-Craft" Polson Rubber Co Garrettsville Ohio "Air-lox" "Champion" & "Polson" Pure Oil Co 35 E Wacker Drive Chicago 1 Ill Robbins Tire & Rubber Co Box 230 Tus-cumbia Ala

Robbins Tire & Rubber Co Box 230 Tus-cumbla Ala Schenuit Rubber Co Frank S Railroad & Union Aves Baltimore 11 Md Selberling Rubber Co., Akron 9, Ohio. Thorobred—See Dayton Rubber Co. U S Royal—See United States Rubber Co United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "U S Royal"

TUBES, PORCELAIN-See Insulators, Spark TUBING, Flexible Metallic

TUBES, Spacer

Federal-Mogul Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit 13 Mich

TUBING, Aluminum

Alcoa—See Aluminum Co. of America.
Alumiflex—See Everhot Products Co.
Aluminum Co. of America. 1501 Alcoa Bidg.
Pittsburgh 19 Pa. "Alcoa."
Colonial Alloys Co. Ridge Ave & Crawford St.
Philadalphia 2.

Pittaburgh 19 Pa "Alcoa"
Colonial Alloys Co Ridge Ave & Crawford St
Philadelphia 29 Pa
Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ill "Alumifiex"
Formed Tubes Inc S Prairie & Albert Sts
Sturgis Mich
Harvey Aluminum 19200 S Western Ave
Torrance Calif
Linderme Tube Co., 1500 E. 219th St., Cleveland 17, Ohio. (Seamless.)
Olin Mathisen Chemical Corp Aluminum Div
400 Park Ave N Y 22 N Y
Penn Brass & Copper Co 3837 W 20th St Erie
Pa "Quality" (Seamless copper)
Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa.
Quality—See Penn Brass & Copper Co
Reynolds Metals Co 3rd & Grace Sts Richmond 19 Va
Roll Formed Products Inc 3765 Oakwood Ave
Youngstown Ohio
United Wire & Supply Corp., 1497 Elmwood
Ave. Providence 7, R L
Wolverine Tube Div of Calumet & Hecla Inc
17200 Southfield Rd Allen Park Mich

TUBING, Brass and Copper

American Brass Co 414 Meadow St Water-bury 20 Conn "Anaconda" American Brass Co French Small Tube Div 128 Robbins St Waterbury 20 Conn "Ana-

Anaconda—See American Brass Co. Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

2 Conn
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Copper)
Everflex—See Everhot Products Co.
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex" (Copper)
Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich

A House Co 263 N Forman St

Steelflex—See Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co
Itleflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)

Exello Accessories Mfrs Inc 31 Madison Ave Hempstead N Y Pormed Tubes Inc S Prairie & Albert Sts Sturgis Mich H & H Tube & Mfg Co 263 N Forman St Detroit 17 Mich Kensteo Tube Co., Hubbell's Cross Rd., Mt. Kisco, N Y (Copper.)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Lewin-Mathes Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
Muller Brass Co 12th St & Chouteau Ave St Louis 2 Mo (Copper)
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
National Ignition Mfg Co. 521 W 23rd St N Y 11 N Y (Copper)
Penn Brass & Copper Co Sas37 W 20th St Eric Pa "Quality" (Seamless copper)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y (Copper)
Planet Metal Products Corp 964 Dean St Brooklyn 38, N Y (Copper)
Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N Y (Quality—See Penn Brass & Copper Co Revere Copper and Brass Inc., 230 Park Ave., New York 17, N Y.
Roll Formed Products Co 3765 Oakwood Ave Youngstown Ohio Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)
Superior Tube Co P O Box 191 Norristown Po (Beryllium copper)
United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.
Velvac Inc 2554 W Pierce St Milwaukee 15 Wells & Co A H 177 B Aurora St Waterbury Conn Work 74 A Herla Inc. 6191 Ma 14 Mo

Wolverine Tube Div of Calumet & Hecla Inc 7200 Southfield Rd Allen Park Mich

CLIPS-See Clips, Cable and Tubing (Auto)

TUBING CUTTERS—See Cutters, Tubing TUBING, DEFROSTER-See Hose, Defroster TUBING, FIBRE-See Fibre, Hard

TUBING FITTINGS-See Fittings, Tube TUBING, FLEXIBLE CONTROL—See Conduit, Flexible Car Wiring

(Crimped or wound tubing for exhaust piping, carburetors, heaters, speedom-eter shaft coverings, wire coverings, etc.; see also Tubing, Oil and Gaso line Line)

Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa Almond—See D'Nomlart Inc American Brass Co American Metal Hose Div 698 S Main St Waterbury 20 Conn Atlantic Metal Hose Co 208 Dyckman St New York 34 N Y (For exhaust gas air oil etc) Continental Rubber Works 1946 Liberty St

Co-Operative Industries Inc 100 Oakdale Rd Chester N J "Duraflex"
D'Nomlart Inc 100 Maple St Ashburnham Mass "Almond"
Duoflex-See Flexico Products Inc Duraflex"
Econoflex-See Co-Operative Industries Inc Econoflex-See Culversal Metal Hose Co Flexico Products Inc Middlesex Ave & Factory St Metuchen N J "Duoflex"
Flexon-See Flexonics Corp Flexonics Corp 1316 S Third Ave Maywood Ill "Rex-Tube" "Rex-Weld" "Flexon"
"Rex Flex"
Forsyth Metal Goods Co Elm St East Aurora N Y
Gabriel Co 1523 E 45th St Cleveland 2 Chie

N Y
Gabriel Co 1523 E 45th St Cleveland 3 Chlo
International Metal Hose Co Ashford Ave
Bellevue Ohlo
Mulconroy Co 54th & Jefferson Sts Philadelphia 31 Pa
Penfiexweld—See Pennsylvania Flexible Metallic Tubing Co
Pennsylvania Flexible Metallic Tubing Co
72nd St & Powers Lane, Philadelphia 42
Pa "Penfieweld"
Perma Loc—See Ryder Mfg Co

Pa "Penneweld"
Perma Loc-See Ryder Mfg Co
Rex Flex-See Flexonics Corp

Rex Flex—See Flexonics Corp
Revere Copper and Brass Inc 230 Park Avn
N Y 17 N Y
Rex-Tube—See Flexonics Corp
Rex-Weld—See Flexonics Corp
Ryder Mig Co 220 N Ada St Chicago 7 III
"Perma Loc"
Steelflex—See Universal Metal Hose Co
Titeflex Inc Hendee St Springfield 4 Mass
(For gas oil air lines exhaust connections
etc)
Universal Metal Hose Co 2133 S Kedzie Ave

American Brass Co French Small Tube
Div 128 Robbins St Waterbury 20 Conn
"Anaconda" (Small diameter)
Anaconda—See American Brass Co.
United Wire & Supply Corp., 1497 Elmwood
Ave., Providence 7, R. I.

TUBING, Oil and Gasoline Line

C The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Flexcurate Products Inc 135 N Spring St In-

Accurate Products Inc 135 N Spring St Indianapolis Ind
Aeroquip Corp 360 B East Ave Jackson Mich
(Flexible, with fittings)
Amcor-See American Coupling Corp
American Brass Co American Metal Hose
Div 638 S Main St Waterbury 58 Conn
(Flexible, with fittings)
American Coupling Corp 2325 Goodrich St
Ferndale 20 Mich "Amcor" (Flexible)
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible).
Andrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y

14 Mo Copperfiex—See Everhot Products Co Coronet Parts Mfg Co 883 Elton Ave Brook-lyn 8 N Y (Flexible and solid) Danco—See Danielson Mfg Co Danielson Mfg Co Danielson Conn "Danco"

anteison and Co Dameison Coin Dance (Nylon) orman Products Inc 1004 Sycamore St Cincinnati 2 Ohio delman & Co E 2232 Logan Blvd Chicago 47 Ill (Fexible)

Edelman -See Everhot Products Co Everhot Products Co 2001 W Carroll Ave Chicago 12 III "Everflex" "Copperflex" (Flexible)

Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y (Flexible)

Flex-Gas—See Motive Equipment Mfrs Inc

Flexonics Corp 1815 S Third Ave Maywood

Ill "Rex-Tube" "Rex-Weld" "Flexon"

(Flexible)

Flexon—See Flevenics Communication of the control of the cont

Flexon—See Flexonics Corp Gates Rubber Co 999 S Broadway Denver 17

Colo Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill (Flexible) Lightnin—See R J Loock & (',) Loock & Co R J 34% N Gay St Baltimore Md

Lightnin

"Lightnin"

Motive Equipment Mfrs Inc 5258 W Roosevelt Rd Chicago 50 Ill "Flex-Gas" (Flexible non-metallic with fittings)

National—See Wheel Parts & Mfg Co National Copper & Smelting Co 1862 E 123rd St Cleveland 6 Ohio

Penn Brass & Copper Co 3837 W 20th St Erle Pa "Quality" (Solid)

Penflexweld—See Pennsylvania Flexible Metallic Tubing Co 72nd St & Powers Lane Philadelphia 42 Pa "Penflexweld"

Perfect Parts Inc 43 W 23rd St New York 10 N Y (Flexible)

N Y (Flexible)
Preferred Electric & Wire Co Bush Terminal
Bldg No 8 Brooklyn 32 N Y
Quaker Rubber Co Tacony & Comly Sts
Philadelphia 24 Pa
Quality—See Penn Brass & Copper Co
Republic Gear Co 2197 Beaufait Ave Detroit
7 Mich

7 Mich
7 Mich
Resistofiex Corp Woodland Rd Roseland
N J (Flexible with fittings)
Rex-Tube—See Flexonics Corp
Rex-Weld—See Flexonics Corp
Steel and Tubes Div., Republic Steel Corp.,
224 E. 131st St., Cleveland 8, Ohlo.
Titefiex Inc Hendee St Springfield 4 Mass
(Ali-metal flexible)
United States Gasket Co Plastic Div of Garlock Camden 1 N J
United Wire & Supply Co 1497 Elmwood Ave
Providence 7 R I
Weatherhead Co Ft Wayne Div 128 W
Washington Blvd Ft Wayne Ind (Flexible
-non-metallic)
Wheel Parts & Mfg Co 352 Fourth Ave N T

-non-metallic)
Wheel Parts & Mfg Co 352 Fourth Ave N T
10 N Y "National"
Wolverine Tube Div of Calumet & Hecla Inc
17200 Southfield Rd Allen Park Mich (Solid)

TUBING. PLASTIC — See Plastics — Sheets, Rods. Tubes and Filaments

TUBING, Rubber

Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio Faultless Rubber Co 263 Fourth St Ashland Ohio

Onio Pirestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio Garlock Packing Co 402 Main St Palmyra N Y

Goodrich Tire Co B r vov Ohio Hewitt-Robins Inc 666 Glenbrook Rd Stam-

Hewitt-Rooms Inc 666 Giendrook Rd Stamford Conn Holfast—See Koehler Rubber & Supply Co Industrial Rubber Goods Co St Joseph Mich Koehler Rubber & Supply Co 2865 Carnegie Ave Cleveland 15 Ohlo "Holfast" Kuehn Co N L 1063 N 4th St Milwaukee 3

Manhattan—See Raybestos-Manhattan Inc Manhattan Rubber Div Master Signal Co 1905 Sutton St Howell Mich Mechanical Rubber Products Co Warwick N Y

N T
Mercer Rubber Co Hamilton Square N J
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Orco—See Ohio Rubber Co
R/M—See Raybestos-Manhattan Inc Equip
Sales Div
Raybestos-Manhattan Inc Equip Sales Div
Stratford Conn "R/M"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J
"Manhattan"

Raybestos-Mannattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Rubatex Div Great American Industries Inc Bedford Va (Cellular)
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Standard Products Co 2130 W 110th St Cleveland Cobio

land 2 Ohio
Thermoid Co Whitehead Rd Trenton 6 N J
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York

TUBING, Steel

Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich

American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich Armoo Steel Corp 703 Curtis St Middletown Ohio (Welded cold rolled and coated) Arvin Industries Inc 13th St & Big Four RR Columbus Ind Avon Tube Div of Higble Mfg Co Charles St Rochester Mich "Fusionweld" B & W—See Babcock & Wilcox Co Babcock & Wilcox Co Babcock & Wilcox Co Tubular Products Div Beaver Falls Pa "R & W" "Croloy" "Nicloy" (Seamless and welded carbon alloy and stafiless)
Bethiehem Steel Cu., Bethlehem, Pa. Brainard Steel Div Sharon Steel Corp 390 Griswold St Warren Ohlo Bundy Tubing Co 8109 E Jefferson Ave Detroit 14 Mich "Bundymed"

Bundyflex—See Everhot Products Co Bundyweld—See Bundy Tubing Co Carpenter Steel Co Alloy Tube Div Spring-field Rd Union N J (Stainless) Croloy—See Babcock & Wilcox Dana Corn 4486

field Rd Union N J (Stainless)
Croloy—See Babcock & Wilcox
Dana Corp 4100 Bennett Rd Toledo 1 Ohio
"Spicer" (Welded)
Detroit Universal Div Chrysler Corp 6465
Kingsley Ave Dearborn Mich (Welded)
Electrunite—See Republic Steel Corp Steel
and Tuhea Div
Enduro—See Republic Steel Corp Steel and
Tube Div
Everhot Products Co 2001 W Carroll Ave
Chicago 12 Ill "Bundyfiex" (Copper coated)
Falls Steel Tube & Mfg Co., 418 Center St
Newton Falls Ohio
Fitzsimmons Mfg Co 3775 E Outer Drive De-

Newton Falls Ohio
Fitzsimmons Mfg Co 3775 E Outer Drive Detroit 34 Mich (Welded)
Flexonles Corp 1315 S 3rd Maywood Ill
(Stainless thin wall)
Formed Tubes Inc S Prairie & Albert Sts
Sturgls Mich
Fusionweld, S.A.

Formed Tubes Inc S Ffairle & Albert Sts Sturgis Mich
Fusionweld—See Avon Tube Div of Higble
Mfg Co
GM — See Rochester Products Div General
Motors Corp
Jones & Laughlin Steel Corp 3 Gateway
Center Pittsburgh 30 Pa
Mefco—See Metal Forming Corp
Metal Forming Corp 1937 Sterling Ave Elkhart Ind "Mefco" (Welded stainless monel
and nickel alloy)
Michigan Seamless Tube Co 400 West Ave
South Lyon Mich (Cold drawn seamless)
Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit
39 Mich (Electric welded)
Monroe Auto Foulument Co., 1426 E. First

ard Tube Co 24400 Plymouth Rd Detroit 39 Mich (Electric welded)
Monroe Auto Equipment Co., 1426 E. First St. Monroe, Mich.
National Tube Div United States Steel Corp 525 Wm Penn Pl Pittsbursh 30 Pa "U S S Shelby" (Seamless; "U S S" stainless)
Nicloy—See Babcock & Wilcox Co.
Nikoh Tube Co 5000 S Whipple St. Chicago 22 Ill (Electric welded)
Ohio Seamless Tube Div of Copperweld Steel Co 122 W Main St Shelby Ohio "Ostuco" (Seamless; "Ohio Special Quality" welded)
Ostuco—See Ohio Seamless Tube Div Pittsbursh Steel Co 1600 Grant Bidg Pittsbursh Steel Co 1600 Grant Bidg Pittsbursh 32 Pa (Cold drawn butt welded)
72 Pa (Cold drawn butt welded)
73 Pa (Cold drawn butt welded)
74 Mass "Speedlok" (Coupling, for hydraulic Jacks)

Porter Inc H K 74 Foley St Somervine Mass "Speedlok" (Coupling, for hydraulic jacks)
Pressed Steel Co 705 N Pennsylvania Ave Wilkes-Barre Pa (Welded alloy)
Republic Steel Corp Steel and Tubes Div 224 E 131st St Cleveland 8 Ohio "Electrunite"; "Enduro" & "Electrunite" (Stainless)
Revere Copper and Brass Inc 230 Park Ave N Y 17 N Y
Rochester Products Div General Motors Corp 1000 Lexington Ave Rochester 3 N Y "GM" Rockrite—See Tube Reducing Corp.
Rolled Formed Products Co 3765 Oakwood Ave Younsstown Chio (Stainless)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago III
Sawhill Tubuiar Products Inc Sharon Pa (Welded, Shenango Div; seamless and welded; Agaloy Div)
Service Steel Div Van Peit Corp P O Box 532 Detroit 12 Mich (Cold drawn)
Spicer—See Dana Corp
Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich (Welded also stainless)
Superior Tube Co P O Box 191 Norristown Pa "Weldrawn" (Stainless carbon and alloy)
Timken Roller Bearing Co (Steel & Tube

alloy)
Timken Roller Bearing Co (Steel & Tube
Div) 1835 Dueber Ave S W Canton 6 Ohio
Tippecane—See Tube Products Corp
Toledo Steel Tube Co 2115 Smead Ave Toledo
Ohio (Welded)
Trent Tube Co East Troy Wis "Trentweld"
(Stainless welded)
Tube Products Corp 320 N 2nd St Tipp City
Ohio "Tippecanoe"

Tube Reducing Corp 520 Main St Wallington TUMBLING BARRELS—See Barreis, Burnish-N J "Rockrite" (Seamless carbon alloy ing and Tumbling d stainless)
S—See National Tube Div United States

S S Shelby—See National Tube Div United

USS Sneiby—See National Tube Div United States Steel Co Weldrawn—See Superior Tube Co Wheatland Tube Co 1300 Bankers Securities Bidg Juniper & Wainut Sts Philadelphia 7 Pa

TPa
Wolverine Tube Div of Calumet & Hecla Inc
17200 Southfield Rd Allen Park Mich
Yoloy—See Youngstown Sheet & Tube Co
Youngstown Sheet & Tube Co P O Box 900
Youngstown 1 Ohio "Yoloy" (Electric
welded)

TUBING, Synthetic Material

Acme Mfg & Gasket Co., 738 N. 41st St., Philadeirhia 4 Pa "Tygon"
Acme Rubber Mfg Co 115 Meade St Trenton N J "Acme Flexrite" (Neoprene for garage exhaust systems)
Airtron—See Arrowhead Products Div Arrowhead Products Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit Mich "Airtron" (Rubber impregnated fiberglass)
Car-Mon Products Co 1541 Devon St Chicago 26 Ill "Car-Mon Nu-Flex" (Neoprene for garage exhaust systems)
Crushproof Tubing Co 212 Park Bivd Cleveland 14 Ohio (Neoprene for garage exhaust systems)

haust systems)
Engwald Corp 125 Sherman Blvd Inwood
L I N Y "Exhaust O-vent" (Neoprene for

L I N Y "Exhaust O-vent" (Neoprene for exhaust Systems)

Exhaust O-vent—See Engwald Corp Irvington Varnish & Insulator Div of Min-nesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N J "Irv-O-Volt" "Irv-O-Lite" "Temflex" (Plastic) Irv-O-Lite—See Irvington Varnish & In-

Lite" "Temflex" (Plastic)

Irv-O-Lite—See Irvington Varnish & Insulator Co.

Irv-O-Volt—See Jivington Varnish & InNigdon Co.

sulator Co.
Nylaflow—See Polymer Corp
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Orco—See Ohio Rubber Co
Polymer Corp 2120 Fairmont Ave Reading
Fn "Nylaflow" (Nylon pressure)
Resistoflex Corp Woodland Rd Roseland
N J (Flexible)
Roberts Toledo Rubber Co 4143 Monroe St
Toledo 13 Ohio
Rodic Rubber Corp. Garwood N J

Toledo 13 Ohio
Rodic Rubher Corp., Garwood, N. J.

Servwell Products Co., 6519 Euclid Ave.,
Cleveland 3, Ohio.
Snyder & Son Inc M L 1827 E York St
Philadelphia 25 Pa "Snyder Standard"

Temflex-See Irvington Varnish & Insulator TWINE, Tufting Tygon—See Acme Mfg. & Gasket Co.
United States Gasket Co Plastic Div of Garlock Camden 1 N J

TUBING, Windshield Wiper

Acme Rubber Mfg Co 115 Meade St Trenton UNDERCOATS, Oil-Base

N J
Bowling Green Rubber Co 4143 Monroe St
Toledo 13 Ohio
Buckeye Rubber Products and 637 N Jackson
St Lima Ohio "Universal"
Continental Rubber Works 1946 Liberty St
Erie Pa "Witalio"
Crown Products Co 5722 S 77th St Ralston

Neb Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A" Durkee-Atwood Co 216 Seventh St N E Min-neapolis 13 Minn Gates Rubber Co., 999 S. Broadway, Denver

7. Colo odrich Tire Co B F 500 S Main St Akron Co

17. Com.
Goodrich Tire Co B F 500 S Mann
18 Ohio
18 Ohio
Guard-A-See Dallas Mfg & Sales Co
KM-See Kravez Mfg Corp
Kravez Mfg Corp 634 Prospect Pl Brooklyn
N "KN"
Miller Rubber Co Div of B F Goodrich Co
500 S Main St Akron Ohio
Quaker Rubber Corp., Tacony & Comly Sts.,
Philadelphin 24 Pa.
Raybestos Div of Raybestos-Manhattan Inc
18 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equip Sales Div
Stratford Conn "R/M"
Stratford Conn "R/M"
Stratford Con. "E/M"

Raybestos-Manhattan Inc Equip Sales Div Stratford Conn "R/M" Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Chio., Sure-Rite-See Warehouse Dist Co Trico Products Corp., 817 Washington St. Buffalo 3, N. Y. Universal—See Buckeye Rubber Products Inc Victor Instrument Mfg Co 33 W 66th St New York 23 N Y Vitalic—See Continental Rubber Works. Warehouse Distributing Co 3810 N 19th St Philadelphia 40 Pa "Sure-Rite"

TUNGSTEN

Fansteel Metallurgical Corp., 2200 Sheridan Rds., North Chicago, Ill Metal Carbides Corp 107 E Indianola Ave Youngstown 7 Ohio "Tailde" Tailde—See Metal Carbides Corp

TUNGSTEN CARBIDE CUTTING ALLOYS-See Alloys, Cutting

TURBINE METERS-See Meters, Turbine

TURBINES. Gas.

Clark Bros Co Lincoln Ave Olean N Y

TURNING EQUIPMENT-See Lather

TURBOCHARGERS, Engine

AiResearch—See Garrett Corp Garrett Corp AiResearch Industrial Div 9225 S Aviation Bivd Los Angeles 45 Calif "Ai-

Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind (Exhaust driven)
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio (Diesel)

TURNTABLES, Automobile

American Stage Equip & Iron Works Inc. 805 E 134th St N Y 54 N Y "Amer-Stage" Anchor Steel & Conveyor Co 6906 Kingaley Ave Dearborn Mich Kirk-Ezee Inc 54 Brooklyn Ave Westbury

Macton Machinery Co 66 Dyke Lane Stam-ford 4 Conn

TURNTABLES, Industrial

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio. (Monorail) American Monorail Co., 13107 Athens Ave., Cleveland 7. Ohio. (Monorail)
American Stage Equip & Iron Works Inc 806
E 134th St N Y 54 N Y "Amer-Stage"
Anchor Steel & Conveyor Co 6906 Kingsley
Ave Dearborn Mich
Atlas Car & Mfg Co 1130 Ivanhoe Rd
Cleveland Ohio (Manual and motorized)
Logan Co Cabel St Louisville 6 Ky
Macton Machinery Co 66 Dyke Lane Stamford 4 Conn
Mathews Conveyer Co., 102 Tenth St., Ellwood City, Pa.
Revolvator Co. U. S. Route 1 at 86th St.,
North Bergen, N. J.

American Forest Products Co Box 911 Nor-ristown Pa

UNDERBODY COATINGS-See Insulation, Heat and Sound (Liquid)

(For nitro-cellulose and pyroxylin finishes)

Arco Co 7301 Bessemer Ave Cleveland 27 Campbell Paint & Varnish Co Div Glidden Co 106 Gratiot St St Louis 2 Mo "Glidden Quality"

Quality"
Forbes Finishes Div Pittsburgh Plate Glass
Co 3800 W 143rd St Cleveland 11 Ohio
Glidden Co 300 Union Commerce Bidg Cleveland 14 Ohio
Glidden Quality—See Campbell Paint & Varnish Co Div Glidden Co
Indiana Indestructible Paint Co 1245 Belmont Ave Chicago III "Stippaleen"
Martin-Senour Co 2520 Quarry St Chicago \$
III

Ill
Oxidermo Products Inc Springport Mich
R-M—See Rinshed-Mason Co
Rinshed-Mason Co 5935 Milford St Detroit
10 Mich "R-M"
STC—See Standard-Toch Chemicals Inc
Standard-Toch Chemicals Inc 2600 Richmond
Terrace Staten Island 2 N Y "STC"
Stippaleen—See Indiana Indestructible Paint
Co

UNDERCOATS, Pyroxylin Base (For nitro-cellulose and pyroxylin finishes)

finishes)

Acme Quality Paints Inc 8250 St Arbin Ave
Detroit 11 Mich "Proxlin"

Arco Co 7301 Bessemer Ave Cleveland 27
Ohio "Arcozon"

Arcozon-See Arco Co
Automotive Finishes Inc P O Box 457, Northwestern Station Detroit Mich "Puttikote"
"Rusterize"

Ditz-Lac—See Ditzler Color Div Pittsburgh VACUUM FURNACES—See Furnaces, Vac- VALVES, Engine Poppet
Plate Glass Co
Ditzler Color Div Pittsburgh Plate Glass Co
8000 W Chicago Ave Detroit 4 Mich "DitzLac"

VACUUM PUMPS—See Pumps, Vacuum
Formical
Formical

Lac"
du Pont de Nemours & Co E I Finishes Div
Reunish Sales Wilmington % Del "Preparakote"
Glidden Co 300 Union Commerce Bldg Cleveland 14 Ohio

opex—See Sherwin-Williams Co
Opidermo Products. Inc., Springport, Mich.
Preparakote—See E I du Pont de Nemours
& Co
Proxilin—See Acme Quality Paints Inc.

& Co
Proxlin—See Acme Quality Paints Inc
Puttikote—See Automotive Finishes, Inc.
R-M—See kinshed-Mason Co.
Rinshed-Mason Co., 5935 Milford St., Detroit
10, Mich. "R-M."

Rinshed-Mason Co., 5358 Milliord St., Letton 10, Mich. "R-M." Rusterize—See Automotive Finishes. Inc. Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio "Opex" Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "Standlac" Standlac—See Standard-Toch Chemicals Inc

UNDERCOATS, Synthetic Resin Base

DADERCUATS, Synthetic Resin Base
Acme Quality Paints Inc 8250 St Aubin Ave
Detroit 11 Mich "Proxiin"
American Lacquer Solvents Co., Perklomer
Junction, Phoenixville, Pa. "Quix."
American Paint Co 902 Larrabee St Chicago
10 III "Daiax" (For commercial vehicles)
Arco Co 7381 Bessemer Ave Cleveland 27
Ohio "Synite"
Automotive Finishes, Inc., P. O. Box 457
Northwestern Sta., Detroit 4, Mich. "Fleet
Lux."
Daiax—See American Paint Co.

Lux."
Dalax—See American Paint Co.
Ditzco—See Ditzler Color Div., Pittaburgh
Plate Glass Co.
Ditzler Color Div., Pittaburgh Plate Glass
Co., 8000 W. Chicago Bivd., Detroit A.
Mich. "Ditzco." Co., 800 Mich. " Fleet-Lux-

Mich. "Ditzco."
Fleet-Lux-See Automotive Finishes, Inc.
Forbes Finishes Div Pittsburgh Plate Glass
Co 3800 W 143rd St Cleveland 11 Ohio
"Synco" "Raybake"
Kem-See Sherwin-Williams Co
Martin-Senour Co 2500 Senour Ave Chicago

111

8 III
Oxidermo Products. Inc., Springport, Mich.
Proxlin—See Acme Quality Faints Inc
Quix—See American Lacquer Solvents Co.
R.M—See Rinshed-Mason Co.
Raybake—See Forbes Finishes Div., Pittsburgh Plate Glass Co.
Rinshed-Mason Co., 5135 Milford St., Detroit
10, Mich. "R-M."
Sherwin-Williams Co 101 Prospect Ave N W
Cleveland 1 Ohio "Kem"
Standard-Toch Chemicals Inc 9500 Richmond
Terrace Staten Island 3 N Y "Stantox"
Stantox—See Standard-Toch Chemicals Inc
Synco—See Forbes Varnish Co.
Synite—See Arco Co.
Zuc-Lac Paint & Lacquer Corp 350 Simpson

Zac-Lac Paint & Lacquer Corp 350 Simpson St NW Atlanta 13 Ga

UNLOADERS, AUTOMATIC (FOR PRESSES, DIE CASTING MACHINES, ETC — See Loaders and Unloaders, Automatic UNIONS, TUBING-See Fittings, Tube

UNITS, Threading (Transfer Machine) Sheffield Corp 721 Springfield St Dayton 1

UNITS, Tool Control

Royal Design & Mfg Inc 4133 E Ten Mile Rd Centerline Mich

UNIVERSAL JOINT PARTS—See Discs, Universal Joint; also Parts, Universal Joint

UNIVERSAL JOINTS-See Joints, Universal UPHOLSTERY MATERIALS AND SUPPLIES

See following heads: Bindings, Upholstery Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery, etc.)

Fabric, Plastic (Upholstery and Seat Cover) Fabrics, Upholstery Fasteners, Upholstery and Seat Cover

Felt, Upholstery Moss, Upholstery

Wadding and Batting, Cotton Webbing, Jute and Cotton UPSETTING MACHINES - See Machines, Forging

V BLOCKS-See Blocks V

VACUUM CLEANERS — See Cleaners, Vac-uum (industrial)

VACUUM TANKS-See Tanks, Air and Vacuum (Brake)

VACUUM TESTING MACHINES - Se chines, Pressure and Vacuum Testing

VALVE CORES-See Valve Cores (Tire) VALVE DUST CAPS-See Caps, Tire Valve

ALVE FITTINGS. ENGINE—See Guides, Valve (Engine); Retainers, Valve Spring; Rotators, Valve Poppet; Screws, Valve Tap-pet Adjusting; Seats, Valve; Shafts, Valve Rocker Arm; Springs, Small (Flat or Cell); also Tappets, Valve VALVE

VALVE CORES (Tire)

Acme Air Appliance Co 205 Newman St Hackensack N J Bowes "Seal Fast" Corp 5902 E 34th St In-dianapolis 8 Ind

dia-apolis 8 Ind
Brida, port Brass Co., 20 Grand St., Bridgeport 2, Conn.
Dill Mfg Co 706 E 82nd St Cleveland 3 Ohlo
Druge Bros Mfg Co 888 92nd Ave Oakland
3 Calif (Sole distributors Tru-Flate Inc
888 92nd Ave Oakland 3 Calif)
G M Co Mfg inc 13-08 43rd Ave Long Island
City L I N Y
Planet Metal Products Corp 964 Dean St
Brooklyn 38 N Y
Schrader's Son Div of Scovill Mfg Co A
470 Vanderbilt Ave Brooklyn 38 N Y
Syracuse Gauge Co P O Box 51 Manlius N Y

VALVES, Air Brake

ABA—See Air Brake

ABA—See Air Brake Accessories Inc
Air Brake Accessories Inc 250 N Western
Ave Chicago 12 Ill "ABA" (Breakaway)
Aircraft Products Div Manning Maxwell &
Moore Shelter Rock Lane Danbury Conn
Bendix-Westinghouse Automotive Air Brake
Co 901 Cleveland Rd Elvria Ohio
Berg Mfg & Sales Co 1712 S Michigan Blvd
Chicago 16 Ill (Breakaway)
George Mfg 10 Harvey St Philadelphia 44
Pa (Automatic)
Vickers Inc Machinery Hydraulic Div Adm
France Conten Detroit 22 Mich

George Mfg 10 Harvey St Philadelphia 44
Pa (Automatic)
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich
Power Brake Equipment Co 1632 S E 11th St
Portland 14 Ore "Williams"
Scalco-See Homer T Scale Inc
Scale Inc Homer T 13530 Nelson Ave City
of Industry Calif "Scalco" (Breakaway)
Sweetland Corn 940 N Fair Oaks Ave Pasadena Calif (For trucks trailers and buses)
Talco Engra Co 2685 State St Hamden Conn
(Breakaway)
Wagner Electric Corp 6400 Plymouth Ave

ther Electric Corp 6400 Plymouth Ave Louis 14 Mo Williams-See Power Brake Equipment Co

VALVES. Air Tank Drain (Automatic) (See also Cocks. Pet (Drain, Gasoline, Air. etc.))

Champion Pneumatic Machinery Co 825 N Pleasant St Princeton III Drain Master—See Master Equin Corn Dri-R-Air—See Quincy Compressor Co Dritank—See L L Hamilton Co George Mfg Co 10 Harvey St Philadelphia 44 Pa

Hamilton Co L L 23 N W 10th St Oklahoma City Okla "Dritank" (For brakes and com-

Admiron Co. L. 23 N. W. 10th St. Okiahoma. City Okia "Dritank" (For brakes and com-pressors) Master Equipment Corp P. O. Box 55 Dayton 1. Ohio "Drain Master" Monroe Standard Inc Wyandot Bidg Galion

Ohio NP-See National Pneumatic Co

National Pneumatic Co 125 Amory St Boston 19 Mass "NP" Quinev Compressor Co 217 Maine St Quincy Ill "Drl-R-Air"

Wagner Electric Corp 6400 Plymouth Ave St Louis 14 Mo Wilkerson Corp 1601 W Girard Ave Engle-wood Colo

VALVES, Air Tank Drain (Non-Automatic)

Power Brake Parts Mfg Co 3435 S Racine Ave Chicago 8 Ill "PB" (Truck trailer and

VALVES, Electromagnetic (Auto) (For fuel shutoff, oil shutoff and hydraulic control)

General Controls Co 801 Allen Ave Glendale
1 Calif "Hi-g"

rough-See Accuralite-See American Hammered Auto

Repl Div
Aerotype—See Thompson Products Inc
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
American Hammered Automotive Replacement Div of Sealed Power Corp Accuralite
Div 2001 Sanford St Muskegon Mich "Accuralite"

curalite"
Adrew Parts Mfg Co 32-70 31st St Long
Island City 6 N Y
Eaton Mfg Co Valve Div Battle Creek Miles
Bigin Machine Works, 412 N. State St.,
Elgin, Ill.
Ertel Products Co Pari Fried

Eigin, Ill.
Ertel Products Co Repl Div of Ertel Mfg
Corp 1402 E 20th St Indianapolis 7 Ind
National—See Wheel Parts & Mfg Co
Parco—See Parts Mfg Co
Part-Plus—See Parts Processing Corp
Parts Mfg Co 311 W 66th St New York
23 N Y "Parco"
Parts Processing Corp 140 E Mills Parts Processing Corp

23 N Y "Parco"
Parts Processing Corp 1499 E Michigan Ave
Battle Creek Mich "Par-Plus" (For trucks
and buses)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Permite—See Aluminum Industries Inc
RMC—See Rich Mig Co
Remco Products Corp State & Hay Sts York

a. h Mfg Corp 96 N Division St Battle Creek lich "RMC"

Rich Mig Cong.
Mich "RMC"
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Sodium Cooled—See Thompson Products Inc
Superior—See White Machine Works.
Thompson Products Inc 23555 Euclid Ave
Cleveland 17 Ohio "Aerotype" & "Sodium
Cooled"

Cleveland 17 Ohio "Aerotype" & "Sodium Cooled"
Toledo Steel Products Div Thompson Products Inc 8402 Cedar Rd Cleveland 3 Ohio
Wheel Parts & Mig Co 352 Fourth Ave N Y
10 N Y "National"
White Machine Works, 1401 Bellevus Ave.,
Eau Claire, Wis. "Superior."
Wolverine Gear & Parts Co Osseo Mich

Vickers Inc Machinery Hydraulic Div Adm & Engrg Center Detroit 32 Mich

ew York Air Brake Co Kalamazoo Div Kalamazoo Mich

Vickers Inc Machinery Hydraulic Div Ad-ministrative & Engrg Center Detroit 32 Mich (Electro-hydraulic) Webster Electric Co 1900 Clark St Racine

VALVES, Needle

Imperial Brass Mfg Co 6300 W Howard St Chicago 31 Ill

VALVES, Safety or Emergency (For safeguarding contents of tanks)

Aircraft Products Div Manning Maxwell & Moore Shelter Rock Lane Danbury Conn "Consolidated"

"Consolidated"

Betts Machine Co 1800 Pennsylvania Ave W

Warren Pa

Consolidated—See Aircraft Products Div

Manning Maxwell & Moore

McDonald Mfg. Co., A. Y., 12th & Pine Sts.,

Dubuque, Iowa.

Morrison Bros. Co., 2401 Elm St., Dubuque,

Lowe.

lowa.

Iowa,
Norgren Co C A 3400 S Elati St Englewood
Calif
Philadelphia Valve Co., Aramingo Ave. &
Ontario St., Philadelphia 34, Pa.
S & J.—See Shand & Jurs Co.
Shand & Jurs Co 2600 Eighth St Berkeley
10 Calif "S & J." (Truck tank)

VALVES, Tire

Ohio

Acme Air Appliance Co 205 Newman St Hackensack N J Bridgeport Brass Co., 30 Grand St., Bridge-port 2, Conn.

port 2. Conn.
Carlan Instruments Co 1375 Park Ave Cran
ston 9 R I (Pressure equalizer for dus
tires)

Chem—See Patch Rubber Co
Dill Mfs Co 700 E 32nd St Cleveland 3 Ohio
Druge Bros Mfg Co 888 92nd Ave Oakland
3 Calif (Sole distributors Tru-Flate Inc
888 92nd Ave Oakland 3 Calif)
Goodrich Tire Co B F 500 S Main St Akron

VALVES. Tire-continued

Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio Patch Rubber Co P O Box 933 Akron 9 Ohio "Chem"
Rite-Way Products Co 39 W E H Crump
Blvd Memphis 2 Tenn
Schrader's Son Div of Scovill Mfg Co A 476
Vanderblit Ave Brooklyn 38 N Y

VALVES, Two-Way, Three-Way and Four-Way

(Fuel reserve valve or cocks) Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich troit 9 Mich
Betts Machine Co 1800 Pennsylvania Ave
W Warren Pa "Warren"
Buckeye Iron & Brass Works 324 E Third St
Dayton 1 Ohio
Hannifin Co 615-D S Wolf Rd Des Plaines

Lydon-Bricker Mfg Co 2500
St Paul 4 Minn
Service Products Corp 201
dianapolis 1 Ind

III (Air Imperial Brass Mfg Co 6300 W Howard St Chicago 31 III Kantleak—See Anderson Brass Co Morrison Bros. Co., 2401 Elm St., Dubuque,

Products Corp 3636 Oakton St Skokie

Ill
Ross Operating Valve Co 120 E Golden Gate
Ave Detroit 3 Mich (Air)
Skinner Electric Valve Div Skinner Chuck
Co Edgewood Ave New Britain Conn
(Electric solenoid)
Valvair Corp 454 Morgan Ave Akron Ohio
(Air)

(Air)
Warren—See Betts Machine Co
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind

VANADIUM ALLOY-See Alloys, Vanadium

VANADIUM METAL

Vanadium Corp. of America, 420 Lexington Ave., New York 17, N. Y. "Vancorom."

VANADIUM STEEL-See Steel, Vanadium VAPORIZERS, LP-Gas—See Regulators, Adaptors and Vaporizers, LP-Gas

VARIABLE SPEED DRIVES (MACHINE TOOL)—See Drives, Variable Speed (Ma-TOOL)—Sec

VARNISH DRYERS-See Dryers, Japanning and Varnish

VARNISHES, Laminating (For Producing of Laminated Plastics)

General Electric Co Chemical & Metallurgi Div Plastics Dept 132 S Water St I catur Hl "G-E"

VENTILATING FANS—See Fans, Defrosting and Ventilating, Electric (Auto)

VENTILATORS, Bus and Truck

Electric Service Works Delta Star Electric Div H K Porter Co 17th & Cambria Sts Philadelphia 32 Pa "Keystone" (Bus) Evans Products Co 13101 Eckles Rd Plymouth Mich (Bus and truck cab) Keystone—See Electric Service Works Service Products Corp 201 S Rural St Indianapolis 1 Ind

VENTILATORS, Cowl

National Aluminum Co., 1912 Frederick St., Racine, Wia, Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2. Ohio. Service Products Corp 201 S Rural St In-dianapolis 1 Ind

VENTILATORS, Crankcase

(See also Caps, Crankcase Breather) (See also Caps. Crankcase Breather)
AC The Electronics Div of General Motors
1300 N Dort Highway Fiint 2 Mich
Donaldson Co 666 Pelham Blvd St Paul 14
Minn
Fram Corp Providence 16 R I
Monarch Tool & Machinery Co., 2225 S. Racine Ave., Chicago 8, Ill.
Olidex Corp 418 E Second St Tulsa Okla
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.

VENTILATORS, Hood

Service Products Corp 201 S Rural St In-dianapolis 1 Ind

VENTILATORS, Roof

Aerovent—See Columbus Metal Products Co. Columbus Metal Products Cr., 1341 Norton Ave., Columbus 8, Ohio. "Aerovent." Ave., (Bus.)

Evans Products Co 13101 Eckles Rd Plymouth Mich (Power driven for trucks)
H & P Die & Stamping Co 13945 Triskett Rd
Cleveland 11 Ohio (For bus, truck and trailer)

Metaleraft Mfg Co 1202 E 23rd St Indianapolis 5 Ind (For fire trucks school buses trac-tors and army trucks)

VENTILATORS, Screened (Upholstery) Defiance Button Machine Co., 43 W. 24th St., New York, N. Y. Handy Button Machine Co 2255 S Rockwell St Chicago 8 III

Lydon-Bricker Mfg Co 2500 University Ave St Paul 4 Minn Service Products Corp 201 S Rural St In-

Service Products Corp 201 S Rural St In-dianapolis 1 Ind Servwell Products Co 6519 Euclid Ave Cleve-land 3 Ohio "X-Haler" (House) Tompkins H S 188 Chambers St New York 7 N Y dlin Inc P O Box 1470 Texarkana Tex (House) Woodlin Metal Products Co Marshall Mich

(House) X-Haler—See Servwell Products Co

VENTS, Tank Body

Buckeye Iron & Brass Works \$24 E Third St Dayton 1 Ohlo McDonald Mfg. Co., A. Y., 12th & Pine Sts. Dubuque, Iowa. Morrison Bros. Co., 2401 Elm St., Dubuque.

Morrison Bros. Co., Lord Low. Low. Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa. Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

VERNIER GAGES - See Gages, Vernier,

VIBRATION ABSORPTION ISOLA (FOR MACHINERY)—See Isolators, tion Absorption (For Machinery)

VIBRATION DAMPERS-See Dampers, Vi-

VIBRATION MEASURING INSTRUMENTS— Measuring

VISCOSIMETERS

Bristol Co Waterbury 20 Conn Precision Scientific Co., 3737 W. Cortland St., Chleago 47, Ill. Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

VISES, Drill Press

AMF Tool Div American Machine & Foun-dry Co 224 Glenwood Ave Bloomfield NJ "AMF Float-Lock"

"Amp Float-Lock"
Airlox—See Production Devices. Inc.
Albertson & Co \$100 Lowell Ave Sloux City
3 Iowa "Sloux"

3 Iowa "Sioux"
Armstrong Bros. Co., 5200 W. Armstrong
Ave., Chicago 30, III.
Athol Machine & Foundry Co 36 South St
Athol Mass
Atlas Press Co 1842 N Pitcher St Kalamazoo
13D Mich
Barker—See Thomas Hoist Co
Brown Engineering Co 131 N 3rd St Reading
Pa

Barker—See Thomas Hoist Co
Brown Engineering Co 131 N 3rd St Reading
Pa
Brown & Sharpe Mig. Co., 235 Promenade
St., Providence, R. I.
Buck Mfg Co 1355 N Tenth St San Jose
Calif "Bux" (Magnetic)
Burke—See U S-Burke Machine Tool Div
Bux—See Buck Mfg Co
Champion Biower & Forge Co., Harrisburg
Ave. & Charlotte St., Lancaster. Pa.
Chicago Tool & Engrg Co 8383 South Chicago
Ave Chicago Ill
Desmond-Stephan Mfg. Co., 317 S. Walnut
St., Urbana, Ohio. "Desmond Simplex."
Do All Co 254 N Laurel Ave Des Plaines Ill
Graham Mfg. Co., 47 Bridge St., East Greenwich. R. I.
Heinrich Tools Inc 2707 Industrial Drive Racine Wis "Heinrich Grip-Master"
Hyspeed—See Munton Mfg. Co.
J & S Tool Co 87 Dorna Ave Livingston N J
Kenco Mfg Co 5211 Telegraph Rd Los Angeles 22 Calif
Lisle Corp 89 E Main St Clarinda Iowa
Logansport Machine Co Center Ave Logansport Ind (Pneumatic and hydraulic)
Mead Specialities Co 4114 N Knox Ave Chicago 41 Ill (Pneumatic)
Millers Falls Co Greenfield Mass
Munton Mfg Co 3161 Fullerton Ave Franklin Park Ill "Hyspeed"

Production Devices Inc Davis St White-hall N Y "Airlox" (Pneumatic or hy-

Production Devices Inc Davis St White-hall N Y "Airlox" (Pneumatic or hy-draulic) Sioux—See Albertson & Co Skinner Chuck Co % Edgewood Ave New Britain Conn Steptoe—See Western Machine Tool Co Thomas Hoist Co 20 S Hoyne Ave Chicago 12 Ill "Barker"

12 ill "Barker"
U S-Burke Machine Tool Div Cincinnati
Mfg Corp Brotherton Rd Cincinnati 27 Ohio
"Burke" & "U S"
Universal Engrg Co 126 N Main St Franken-

Universal Engrg Co 126 N Main St Franken-muth Mich Universal Vise & Tool Co Parma Mich Western Machine Tool Co 255 W Ninth St Holland Mich "Steptoe" Wilton Tool Mfg Co 9825 W Irving Park Rd Schiller Park III Yost Mfg Co 124 Grant St Cambridge Springs

Pa (Also pneumatic)

VISES, Machinists' Bench

Alriox—See Production Devices, Inc.
Benchmaster Mfg Co 1835 W Rosecrans Ave
Gardena Calif
Columbian Vise & Mfg Co 9013 Bessemer
Ave Cleveland 4 Ohio
Desmond-Stephan Mfg. Co., 317 S. Walnut
St., Urhana, Ohio, "Desmond Simplex."
Gorton Machine Co George 1131 W 13th St
Racine Wis
Heinrich Tools Inc. 2707 Industrial Value."

Gorton Machine Co George 1131 W 13th St Racine Wis
Heinrich Tools Inc 2707 Industrial Drive Racine Wis (Pneumatic)
Cine Wis (Pneumatic)
Cine Wis (Pneumatic)
Cine Wis (Pneumatic)
Construction Service Tool Co 788 Evans Ave Akron 5 Ohlo
Littlestown Hardware & Foundry Charles
Littlestown Pa
Millers Falls Con Pa
Millers Falls Co., 168 N. Jefferson St., Chicage Cine Co., 168 N. Jefferson St., Chicage Con "Parker" & "Prentiss"
Prentiss—See Chas Parker Co
Production Devices Inc Davis St Whitehall N Y "Airlox" (Pneumatic or hydraulic)

drau

draulic)
Reed Mfg Co Box 1321 Erie Pa
Rock Island—See Whirlpool Corp
Torco—See Wilton Tool Mfg. Co.
Viniversal Vise & Tool Co Parma Mich
Whirlpool Corp St Paul Div St Paul Minn
"Rock Island"
Wilton Tool Mfg Co 9525 W Irving Park Rd
Schiller Park III "Torco" "Wilton"
Yost Mfg Co 124 Grant St Cambridge Springs

VISES, Milling Machine

Airlox—See Production Devices. Inc. Athol Machine & Foundry Co 82 South St Airlox—See Production Perrop.
Athol Machine & Foundry Co. 82 South St. Athol Mass
Bellows Co., 222 W. Market St. Akron 9.
Ohio. (Pneumatic.)
Brown Engrg Co. 131 N. 3rd St. Reading Pa.
Browne & Sharpe Mfs. Co., 235 Promenade.
St., Providence, R. I.
Burke—See U.S.-Burke Machine Tool Div.
Chicago Tool & Engrg Co. 8283 South Chicago.
Ave Chicago III
Desmond-Stephan Mfg. Co. 317 S. Walnut St.
Urbana Ohio "Desmond Simplex".
Globe Heat-Seal Inc. 3380 Robertson Blvd Los.
Angeles 34 Calif.
Graham Mfg. Co. 47 Bridge St. East Greenwich R. I.
Index Machine & Tool Co. 543 N. Mechanic.
St. Jackson Mich.
J. & S. Tool Co. 87 Dorsa Ave Livingston N. J.
Kearney & Trecker Corp. 6890 W. National.
Ave Milwaukee 14 Wis.
Kempsmith Machine Co. 1819 S. 71st St. West.
Allis. 14 Wis.
Lance. Mfg. Co. 5211 Telegraph. Rd. Los. An-

Ave Milwaukee 14 Wis
Kempsmith Machine Co 1819 S 71st St West
Allie 14 Wie
Kenco Mig Co 5211 Telegraph Rd Los Angeles 22 Calif
Knight Machinery Co W B 3920 W Pine St
St Louis 8 Mo
Logansport Machine Co Center Ave Logansport Ind "Logan" (Pneumatic and
hydraulic)
Wand Spacialities Co 4114 N Knox Ave Chi-

hydraulic)
Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill (Pneumatic)
Production Devices Inc Davis St Whitehall N Y "Airlox" (Pneumatic or hydraulic)
Skinner Chuck Co 95 Edgewood Ave New

Skinner Chuck Co 95 Edrewood Ave Reservation Construction Steptoe—See Western Machine Tool Co U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke" & "U S" Universal Engineering Co 126 N Main St Frankenmuth Mich Universal Vise & Tool Co Parma Mich Van Norman Machine Co 3640 Main St Springfeld 7 Mass
Western Machine Tool Co 255 W Ninth St Holland Mich "Steptoe" Wilton Tool Mfg Co 9525 W Irving Park Rd Schiller Park III

VISES. Toolmakers'

VISES, Toolmakers'
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Chicago Tool & Engrg Co 8383 South Chicago Ave Chicago III
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
J & S Tool Co 87 Dorsa Ave Livingston N J Producto Machine Co., 950 Housatonic Ave., Bridgeport 1. Conn.
Reed Mfg Co Box 1321 Erle Pa Yost Mfg Co 124 Grant St Cambridge Springs Pa (Also pneumatic)

VISES, Universal Machine

Airlox—See Production Devices, Inc. Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I. St., Providence, R. I.

J & S Tool Co 87 Dorsa Ave Livingston N J
Production Devices Inc Davis St Whitehall N Y "Airlox" (Pneumatic or hydraulic)

VISORS, Windshield

Acme Specialty Mfg Co 2298 Smead Ave Toledo 6 Ohio (Outside plastic) Airform—See Charles Peckat Mfg Co Arvey Corp., 6401 E. Nevada Ave., Detroit

Arvey Corp., 6401 E. Nevada Ave., Detroit 34, Mich.
Atlas Specialty Mfg Co 2255 Shields Ave Chicago 16 Ill (Inside, plastic)
Detroit Gasket & Mfg Co 12640 Burt Rd
Detroit 23 Mich
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14,
Wis. (Inside and outside.)
Hall's—See A. E. Scheffer.
Hemco—See Henry Mfg Co
Henry Mfg Co 1310 Marquette St Minneapolis Minn "Hemco" (Inside transparent)
Jacobs Co F L 1643 Spruce St Detroit 32
Mich

Mich

Jacoba Co F L 1443 Spruce St Detroit \$2
Mich
Master Co 37 Preston Ct Brooklyn 24 N Y
"Sheeld" (Inside transparent)
Peckat Mfg Co Charles 110 Madison St Maywood Ill "Airform" & "Peckat" (Outside)
Peerless Novelty Co., First & Fulton Sts.,
Grand Haven, Mich.
Safe-T-Zone—See Visionade Mfg Co
Scheffler, A. E., 3121 Bowser St., Dallas 4
"Tex." "Hall"s." (Inside.)
Sheeld—See Master Co
Sunfilter—See Visionade Mfg Co
Visionade Mfg Co 200 Kosclusko St Brooklyn 16 N Y "Safe-T-Zone" "Sunfilter"
"Visionade" (Inside transparent)
Vision-Visor Corp 331 S Wabash Ave Chicago 5 Ill (Transparent outside)
Wilco—See Wilson Co
Wilson Co 959 Commonwealth Ave Boston
Mass "Wilco"
Woodall Industries Inc 7565 E McNichols
Rd Detroit 34 Mich
OLTAGE REGULATORS—See Regulators.

VOLTAGE REGULATORS—See Reg Generator Current & Voltage (Auto) Regulators,

VOLTMETERS — See Ammeters, Instrument Board; also Ammeters and Voltmeters (In-cluding Switchboard)

WADDING and BATTING, Cotton

Burkart Mfg Co F Div of Textron Inc 4900 N Second St St Louis 7 Mo "Burkhart"; "Burkaire" (Plastic bonded cotton batts)

WARNING LIGHTS-See Lamps, Warning WASHER CUTTERS-See Cutters, Washer and Gasket

WASHER PUNCHES-See Punches, Arch or Washer

WASHERS, Aluminum

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4. Pa. Aluminum Co of America 1501 Alcoa Bidg Pittsburgh 13 Pa American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa. Detroit Stamping Co 357 Midland Ave De-troit 3 Mich Fitzgerald Mfg Co 691 Main St Torring-ton Conn

Fitzgerald Mfg Co 691 Main St Torrington Conn
Freeway Washer & Stamping Co P O Box
1756 Cleveland 5 Ohio
Garrett Co George K Torresdale Ave at
Tolbut St Philadelphia 36 Pa
Gasket Packing & Specialty Co 41 N Saxon
Ave Bay Shore L I N Y
Hercules Fastener Corp 2722 N Clybourn
Ave Chicago 14 Ill "Sturdi-Bolt"
Hill Nut Co, 2620 W. Flournoy St., Chicago
12, Ill.

12, III.

Master Products Co 6400 Park Ave S E
Cleveland 5 Ohio

Cleveland 5 Ohlo Penn Fibre & Specialty Co 2024 E Westmore-land St Philadelphia 34 Pa Philadelphia Gasket & Mfg. Co., F & Atlan-tic Sts., Philadelphia 34, Pa.

Press Work Inc Lead Alloy Products Div 3100 Roselawn Ave Detroit 4 Mich Sturdi-Boit—See Hercules Fastener Corp Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio Well-Ransom Co 816 Fulton St Chicago Ill Wisconsin Gasket & Mfg Co 8724 N Gran-ville Rd Granville Wis Wrought Washer Mfg Co 2107 S Bay St Mil-waukee 7 Wis

WASHERS, Auto, Truck and Bus (Systems)

Detrex Chemical Industries Inc Box 501 De-troit 32 Mich "Drex-Foamizer" Wohlert Corp 700 E Grand River Ave Lan-sing 5 Mich (Automatic)

WASHERS, Bronze

Cannon Bronze Corp Keithsburg Ill (Crankshaft)
ederal-Mogul Div Federal-Mogul-Bower
Bearings Inc 11031 Shoemaker Rd Detroit
31 Mich

WASHERS, CORK-See Gaskets, Cork

WASHERS, Felt

(See also Felt, Sheet)

Continental Felt Co 22 W 15th St New York 11 N Y "Vel-Fel" Vel-Fel—See Continental Felt Co

WASHERS, FIBRE-See Washers, Insulation (Composition, Fibre, Mica and Rubber)

WASHERS, Finishing

WASHERS, Finishing
Acme Mfg. & Gasket Co., 738 N. 4ist St.,
Philadeiphia 4, Pa.
Allmetal Screw Products Co 321 Stewart Ave
Garden City N Y (Stainless steel)
Atlas Tack Corp., 1079 Pleasant St., Fairhaven, Mass.
Bergander Mfg Co 2129 Warner Ave Chicago
18 Ill "Gulmite"
Continental Screw Co 100 Mt Pleasant St.
New Bedford Mass "Holitie"
Diamond G—See George K. Garrett Co.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Garrett Co George K Torresdale Ave at Tol-

cinnati 2 Ohio
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 36 Pa "Diamond G"
Gulmite—See Bergander Mfg Co
Hill Nut Co., 2620 W. Flournoy St., Chicago
12, Ill. Holtite-See Continental Screw Co

Master Products Co 6400 Park Ave S E Cleveland 5 Ohio Wrought Washer Mfg Co 2107 S Bay St Mil-waukee 7 Wis

WASHERS, Insulation (Composition, Fibre, Mica and Rubber)

Fibre, Mica and Rubber)

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.

Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn. (Fibre.)

Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del (Fibre)

Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Fibre.)

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio (Fibre)

Excelsior Leather Wusher Mfg Co 720 Chestnut St Rockford Ill "X-L"

Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Bakelite and hard fibre)

Hill Nut Co., 2620 W. Flournoy St., Chicago

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa. Kuehn Co N L 1053 N 4th St Milwaukee 3 Wis

Wis Latex Fiber Industries, Inc., Beaver Falls, N. Y. "Lexide." (Composition fibre and rubber.)

-See Latex Fiber Industries Inc Manhattan See Raybestos-Manhattan. Inc., Manhattan Rubher Div Martindale Electric Co 1340 Hird Ave Cleve-

land 7 Ohlo (Fibre washer assortment)
Mechanical Rubber Products Co., Warwick,
N. Y.

N. Y.
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del (Fibre)
Penn Fibre & Specialty Co 2024 E Westmoreland St Philadelphia 24 Pa (Fibre)
Preferred Electric & Wire Co Bush Terminal
Bldg No 8 Brooklyn 32 N Y (Fibre)
R/M—See Raybestos-Manhattan Inc Equip
Sales Div
Raybestos-Manhattan Inc Equip Sales Div

Sales Div Ravheston-Manhattan Inc Equip Sales Div Stratford Conn "R/M" Raybestos-Manhattan Inc Manhattan Rub-ber Div 61 Willet St Passaic N J "Manher Di

Standard Products Co 2130 W 110th St Cleveland 2 Ohio

Taylor Fibre Co., Norristown, Pa. (Fibre.) Wilmington Fibre Specialty Co New Castle Del

Del Wisconsin Gasket Mfg. Co., 8724 N. Gran-ville Rd., Granville, Wis. X-L—See Excelsior Leather Washer Mfg Co

WASHERS, Iron and Steel

Akron-Selle Co High & Chestnut Sts Akron 11 Ohio man Products Inc 1004 Sycamore St Cincinnati 2 Ohio

WASHERS, LEAD and LEAD ALLOY-See Gaskets, Lead and Lead Alloy

WASHERS, LEATHER-See Gaskets. Leather

WASHERS, Lock

(See also Nuts, Lock & Self-Locking)

(See also Nuts, Lock & Seif-Locking)
Acme Mfg. & Gasket Co., 738 N. 41st St.,
Philadelphia, Pa.
Allmetal Screw Products Co S21 Stewart Ave
Garden City N Y (Stainless steel).
American Nut & Boi; Fastener Co., 2029
Doerr St., Pittsburgh 33, Pa. "Antilink,"
"Kantlink," (Carbon steel, stainless steel,
bronze and aluminum)
American Screw Co 1670 W Main St Williamantic Conn "Sems" (Pre-assembled lock
washer and screw; licensees)
Anti-Corrosive Metal Products Co Castletonon-Hudson N Y (Stainless steel)
Antilink—See American Nut & Boit Fastener
Co

Antilink—See American Nut & Bolt Fastener Co
Autoscrew Co., 216 W. 18th St., New York,
N. Y. (Steel.)
H & H—See Butcher & Hart Mfg. Co.
Beall Tool Div Unit Rail Anchor Corp East
Alton Ill "Kantlink" Co. 4601 Cortland Ave
Altoona Pa "B & H"; "B & H Sems"
(Preassembled lock washer and screw)
Central Screw Co., 3501 S. Shleids Ave., Chicago 9, Ill. "Sems." (Pre-assembled lock
washer and screw): (Pre-assembled lock
washer and screw): (Consees.)
Chase Brass & Copper Co., 236 Grand St.,
Waterbury 20, Conn. (Bronze
Continental Screw Co 100 Mt Pleasant St.
New Bedford Mass "Holtite" and "Lock
Tite" (Also "Sems" pre-assembled lock
washer and screw)
Diamond G—See George K. Garrett Co.
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio

Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Eaton Mfg Co Reliance Div 25 Charles Ave
SE Massilion Ohio "Reliance"; "Eaton
Springittes (Pre-assembled lock washer
and screw; licensees)
Everlock-See Thompson-Bremer & Co.
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 36 Pa "Diamond G"
Hercules Fastener Corp 2722 N Clybourn
Ave Chicago 14 Ill "Sturdi-Bolt" (Steel;
pre-assembled lock washer and screw;
licensees)
Hill Nut Co., 2620 W, Flournoy St., Chicago
12. Ill.
Holtite—See Continental Screw Co

12. III.
Holtite—See Continental Screw Co.
Kantlink—See American Nut & Bolt Fastener Co; Beall Tool Div Hubbard & Co;
Positive Lock Washer Co; National Lock
Washer Co.

Washer
Keps—See Shakeproof Div of
Works
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis (Steel spring)
Lamson & Sessions Co 5000 Tiedeman Rd
Cleveland 9 Ohlo "Lamson" "Sems" (Preassembled lock washer and screw; il-

assembled consess
Lightnin—See R J Loock & Co
Lock-Tite—See Continental Screw Co
Lok-Crowner—See Rawblug Co
Loock & Co R J 343 N Gay St Baltimore Md

VENTILATORS

HOOD COWL. SIDE MANY STYLES AND SIZES SEND US YOUR PROBLEM SERVICE PRODUCTS CORP'N INDIANAPOLIS, IND.

Circle 260 on Inquiry Card for more data



Circle 261 on Inquiry Card for more data

WASHERS, Lock-continued

National Lock Washer Co., 46 Hermon St., Newark 5, N. J. "Kantlink." National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Sems" (Pre-assembled lock washer and screw; licensees; "Tuff-Tite" pre-assembled lock washer and

Never-Slip-See Philadelphia Steel & Wire

Corp
Corp
Palnut Co 54 Glen Rd Mountainside N J
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago
50 Ill "Sems" (Pre-assembled lock

Corp
Painut Co 54 Gien Rd Mountainside N J
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pheoli Mfg Co 5700 W Roosevelt Rd Chicago
50 Ill "Sems" (Pre-assembled lock
washer and screw)
Philadelphia Steel & Wire Corp (Lock
Washer Div) Penn St & Beifield Ave
Philadelphia 44 Pa "Never-Slip"
Postitve Lock Washer Co 181 Miller St Newark N J "Kantlink"
Promco—See Torrington Co
Rawlplug Co 200 Petersville Rd New Rochelle N Y "Lok-Crowner" (Combination
lock washer and crowner)
Reliance—See Eaton Mfg Co
Rockford Ill "Sems" (Assembled)
Russell Burdsall & Ward Bolt & Nut Co
Port Chester N Y "Sems" (Licensees)
SKF Industries Inc Front St & Erle Ave
Philadelphia 32 Pa
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Sems—See American Screw Co; Central
Screw Co; Continental Screw Co; Hercules
Fastener Corp; Lamson & Sessions Co;
National Screw & Mfg Co; Pheoli Mfg Co;
Rockford Screw Products Co; Russel
Bolt Co; Torrington Co
Sems-by-Shakeproof—See Shakeproof Div of
Illinois Tool Works
Shakeproof Div of Illinois Tool Works St
Charles Rd Eigin Ill ("Shakeproof";
"Sems-by-Shakeproof-—See Shakeproof";
"Sems-by-Shakeproof-—See Schakeproof";
"Sems-by-Shakeproof" Preassembled lock
washer and screw, licensors; "Keps" preassembled nut and lock washer)
Sterling Bolt Co 363 W Erie St Chicago 10
Ill "Sems" (Pre-assembled lock washer)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torrington Con
"Promco"; "Sems" (Pre-assembled lock
washer and screw)
Torrington Co 59 Field St Torringto

Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

WASHERS, MICA—See Mica Sheets, Tubes, Washers and Cores; also Washers, Insulation (Composition, Fibre, Mica and Rubber)

WASHERS and BURRS, Riveting

American Nut & Bolt Fastener Co. 2029 Doerr St., Pittsburgh 12, Pa. Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohlo (Burrs) Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. 12, III.

Master Products Co 6400 Fara.
Cleveland 5 Ohio
Stimpson Co., Edwin, 70 Franklin Ave.,
Brooklyn, N. Y.
Superior Wrought Washer Co., 1951 W. 96th
St., Cleveland 2. Ohio.
United Screw & Bolt Corp 3590 W 58th St
Cleveland O.
Wrought Washer Mfg Co 2107 S Bay St Mil-

WASHERS, PAPER-See Gaskets, Paper WASHERS, PUMP-See Gaskets, Leather

WASHERS, RUBBER-See Washers, Insula-tion (Composition, Fibre, Mica and Rubber)

WASHERS, SOLDER-See Gaskets, Lead and

WASHERS, Spacing

American Nut & Bolt Fastener Co., 2029
Doerr St., Fitteburgh 33, Pa.
Diamond G-See George K. Garrett Co.
Dorman Products inc 1004 Sycamore St Cincinnati 2 Ohio
Freeway Washer & Stamping Co P O Box
1756 Cleveland 5 Ohio
Garrett Co George K D & Tioga Sts Philadelphia 34 Pa "Diamond G"

Hercules Fastener Corp 2722 N Clybourn
Ave Chicago 14 Ill "Sturdi-Bolt"
Keystone Gasket Mfg Co 833 N Fourth St
Philadelphia 22 Pa
M-P—See Master Products Co
Master Products Co 6400 Park Ave S E
Cleveland 5 Ohio "M-P"
Stevens-Walden Inc 475 Shrewsbury St Worcester Mass
Sturdi-Bolt—See Hercules Fastener Corp
United Screw & Bolt Corp., 3590 W. 58th
St., Cleveland, Ohio.
Whitehead Stamping Co 1661 W Lafayette
Bivd Detroit 16 Mich
Wisconsin Gasket & Mig Co 8724 N Granville Rd Granville Wis
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

WASHERS, Star

Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio Hill Nut Co 2620 W Flournoy St Chicago 12 Ill

12 III
Imco—See Inter-Continent Mfg Co
Inter-Continent Mfg Co 117 E 13th St Chicago 5 III "Imco"
Master Products Co 6400 Park Ave S E
Cleveland 5 Ohio

WASHERS, STEEL-See Washers, Iron and

WASHERS, Steel Spring

VASILERS, Steel Spring
American Nut & Bolt Fastener Co., 2029
Doerr St., Pittsburgh 33, Pa.
Barnes Co., Wallace, Div. of Associated
Spring Corp., 18 Main St., Bristol, Conn.
Cook Piant of Barnes-Glisson-Raymond Div
of Associated Spring Corp 410 E Stadium
Bivd Ann Arbor Mich
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio.

Bivd Ann Arbor Mich
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Freeway Washer & Stamping Co P O Box
1756 Cleveland 5 Ohio
Kantlink—See Positive Lock Washer Co.
Keystone Gasket Mfg. Co., 833 N. Fourth St.,
Philadelphia 23, Pa.
M.P.—See Master Products Co.
Master Products Co 6400 Park Ave S E
Cleveland 5 Ohio "M.-P"
Non Link Positive—See Positive Lock Washer Co.,
Positive Lock Washer Co., 181 Miller St.
Newark, N. J. "Kantlink," "Non-Link
Positive."
Shakeproof Div of Illinois Tool Works St
Charles Rd Eigin Ill
United Screw & Hoit Corp., 3590 W. 58th St.
Cleveland, Ohio.
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

WASHERS, Windshield (Vacuum Oper-

(For spraying windshields with water)

Anderson Co 1075 Grant St Gary 40 Ind Jet King—See Santay Corp Kwik-Kleens—See Santay Corp Santay Corp 351 N Crawford Ave Chicago 24 Ill "Jet King" & "Kwik Kleens" (Foot controlled)

Trico Products Corp 817 Washington St Buf-falo 3 N Y

WASHING MACHINES, METAL PA See Machines, Washing (Metal Parts) WATCHES-See Clocks (Auto)

WATER CIRCULATING THERMOSTATS— See Thermostats, Water Circulating

WATER PUMP PARTS — See Belts, Auto (Fan, Water Pump, Generator, etc.) Couplings, Magneto, Generator and Water Pump; Parts, Water Pump; also Shafts, Water Pump

WATER PUMPS-See Pumps, Water Circulating (Auto)

WATER TEMPERATURE INDICATORS—See Gages, Water Temperature Indicating

WATT-HOUR METERS-See Meters, Watt-

WATTMETERS

Esterline-Angus Co P O Box 596 Indianapolis 6 Ind G-E—See General Electric Co General Electric Co General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" Norton Electrical Instrument Co 31 Hilliard St Manchester Conn Simpson Electric Co Div of American Gage & Machine Co 5208 W Kinzie St Chicago 44 Ill Weston Instruments Div of Daystrom Inc 614 Frelinghuysen Ave Newark 12 N J

(See also Machines, Balancing (Industrial) Anderson Bros Mfg Co 1907 Kishwaukee St Rockford II Sundstrand Machine Tool Co 2531 11th St Rockford III "20th Century" 20th Century—See Sundstrand Machine Tool

WEAR RESISTING COMPOUNDS (Metal)
See Compounds, Wear Resisting (Metal) WEARING PLATES-See Plates, Wearing

WEATHER STRIPS - See Strips, Weather (Windshield, Window, etc.)

WEBBING. Jute and Cotton

American Cord & Webbing Co 374 Broad-way N Y 13 N Y Anchor Webbing Co P O Box 1624 Providence

Anchor Webbing Co P O Box 1824 Providence R I (Cotton)

Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I (Cotton)

Belco Industries Inc 1628 Bates St Indian-apoils 1 Ind (Cotton)

Black Diamond—See Uniform Hood Lace Co Bridgeport Fabrics Inc 165 Holland Ave

Bridgeport Fabrics Inc 165 Holland Bridgeport 9 Conn Brufalo Weaving & Belting Co 260 Chandler St Buffalo 7 N Y Burkart Mfg Co F Div of Textron Inc 4900 N Second St St Louis 7 Mo (Jute) Georgia Webbing & Tape Co 1340 11th Ave Columbus Ga (Cotton) Gilmer Co L H Cottman & Keystone Sts (Tacony) Philadelphia Pa (Cotton) Hope Webbing Co P O Box 1495 Providence 1 R I

Stevens Co A T 118 E 28th St New York 16 N Y

N Y Sturges Mfg Co 2030 Sunset Ave Utica N Y (Cotton) Uniform Hood Lace Co 633 E St Clair St In-dianapolis Ind "Black Diamond" (Cotton)

WELDERS and EQUIPMENT, Electric (Arc)

Agnew Machine Co 121 S Main St Milford Mich (Automatic)
Airco—See Air Reduction Sales Co
Air Reduction Sales Co Socony-Mobil Bidg
150 E 42nd St New York 17 N Y "Airco"
Birdsell Mfg Co 750 San Antonio Rd Palo
Aito Calif
Controlac—See Vickers Inc
Couse Mfg. Inc., 300 Passaic St., Newark 4,
N. J. (Mobile.)

re—See Westinghouse Electric Corp. Industries 1820 La Porte Ave Ft Col-Flex-Arc ey Industries 1000 Box 150 Logan in Machinery Co PO Box 150 Logan Wia Guyan

Harnischfeger Corp Milwaukee 46 Wis P&

"P & H"
Hobart Bros. Co., Canal Locks Square, Troy
1, Ohlo.
Lee Co., K. O., Congress at First Ave.,
S. E., Aberdeen, S. D.
Lincoin Electric Co 22801 St Clair Ave Cleveland 17 Ohlo ("Shield-Arc" "Idealarc"
"Lincwelder" Manual; "Lincolnweld"

land 17 Ohlo

"Lincowelder" Manual; "Lincolnweld"
Automatic)
Lincoinweid—See Lincoin Electric Co.
Lincwelder—See Lincoin Electric Co.
Lincwelder—See Lincoin Electric Co.
M&T—See Metal & Thermit Corp.
Marquette Mfg. Co., 307 E. Hennepin Ave.,
Minneapolis 14, Minn.
Mercury Electric Corp 719 Wyandotte St.
Kansas City 6 Mo (Also combination
bonder and arc welder)
Metal & Thermit Corp 100 E 42nd St. N Y
17 N Y "M & T"
Mid-States Welder Mfg. Co. 6025 S. Ashland
Ave Chicago 36 Ill (Also stabilizers)
Miller Electric Mfg. Co., 718 S. Bounds St.,
Appleton, Wis.
Morton Mfg. Co Broadway & Hoyt St Muskegon Heights Mich
National Cylinder Gas Co. 340 N. Michigan
Ave Chicago 11 Ill "Sureweld"
P & H—See Harnischfeger Corp
Precision Welder Mfg. Co. 2218 W. Lake St.
Chicago 12 Ill "Shop-King"
Rexarc—See Sight Feed Generator Co.
Royal Arc Industries Inc 425 Cedar St. Chilicothe Ill

Stald Arc.—See Lincoin Electric Co.

Royal Arc Industries Inc 425 Cedar St Chilli-cothe III
Shield-Arc—See Lincoln Electric Co.
Shop-King—See Precision Weider Mfg. Co.
Sight Feed Generator Co West Alexandria
Ohlo "Rexarc" (Automatic)
Smith Corp., A. O., 27th & Hopkins Sts.,
Milwaukee 1. Wis.
Sureweld—See National Cylinder Gas Co
Swift Ohlo Corp 17325 Lamont St Detroit
12 Mich

12 Mich Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio

Trindl Products Ltd 1807 S Clark St Chi-cago 16 Ill (Welding)
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.
Vickers Inc Electric Products Div 1815 Lo-cust St St Louis 3 Mo "Controlac"
Welduction Corp 10230 Capital Ave Oak Park 27 Mich Mich

restinghouse Electric Corp 3 Gateway Cen-ter Pittsburgh 30 Pa "Flex-Arc"

WELDERS and EQUIPMENT, Electric (Butt)

A.E.F.—See American Electric Fusion Corp. Acme Electric Welder Co 2618 Fruitland Ave Los Angeles 58 Cai Agnew Electric Co 121 S Main St Milford Mich

American Electric Fusion Corp., 2610 Diver-sey Ave., Chicago 47, Ill. "A.E.F." DoAll Co., 254 N. Laurel Ave., Des Plaines,

111

III.
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Grob Inc Grafton Wis (For saw blades)
Micro Products Co., 20 N. Wacker Drive, Chicago 6, III. "Micro-Weld."
National Electric Welding Machines Co., 1846 N. Trumbull St., Bay City. Mich. Swift Ohio Corp 17325 Lamont St. Detroit 12 Mich
Taylor-Winfield Corp., 1052 Mahoning Ave., N. W., Warren Ohio
Thomson Electric Welder Co., 161 Pleasant St., Lynn, Mass.
United Welders Inc 1019 Scheurmann St Essexville Mich
Weltronic Co 19500 W 8 Mile Rd Detroit 41 Mich (Controls)

Mich (Controls)

WELDERS and EQUIPMENT, Electric (Flash)

Agnew Machine Co 121 S Main St Milford

Mich Machine & Weider Co 1745 Overland Ave Warren Ohio
National Electric Weiding Machines Co., 1846
N. Trumbull St., Bay City, Mich.
Precision Welder & Flexopress Corp 2520
Ibsen Ave Cincinnati 9 Ohio
Progressive Welder Sales Co 915 Oakland
Ave Pontiac Mich
Resistance Welder Corp Bay City Mich
Betaky Bron., Inc., 4915 W. 67th St., Chicago
28, Ill. (Flash-butt resistance.)
Swift Ohio Corp 17325 Lamont St Detroit
12 Mich

12 Mich Corp 17325 Lamont St Detroit
12 Mich Taylor-Winfield Corp 1952 Mahoning Ave WELDERS and EQUIPMENT, Electric S W Warren Ohio
Thomson Electric Welder Co., 161 Pleasant St., Lynn, Mass

United Welders Inc 1019 Scheurmann St Es-sexville Mich

WELDERS and EQUIPMENT, Electric

A.E.F.—See American Electric Fusion Corp. Acme Electric Welder Co 2616 Fruitland Ave Los Angeles 58 Calif Agnew Machine Co 121 S Main St Milford Agnew

Mich American Electric Fusion Corp., 2610 Diver-sey Ave., Chicago 47, Ill. "A.E.F." Ampco Metal Inc 1737 S 38th St Milwaukee 46 Wis "Ampco-Weld" (Wheels)

American Electric Funon Corp., 2010 Diverses Ave., Chicago 47, Ill. "A.E.F."
Ampco Metal Inc 1737 S 38th St Milwaukee 46 Wis "Ampco-Weld" (Wheels)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Mallory & Co P H 3029 E Washington St Indianapolis 6 Ind (Wheels)
Martin Electric Div Thompson Industries Inc 3040 E Outer Drive Detroit 24 Mich Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
National Electric Welding Machines Co. 1846 N. Trumbull St., Bay City, Mich.
Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio
Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich Resistance Welder Corp Bay City Mich Sciaky Bros., Inc., 4915 W. 67th St., Chicago 28, Ill. (Resistance.)
Swift Ohio Corp 17325 Lamont St Detroit 12 Mich
Tavior-Winfield Corp., 1052 Mahoning Ave.

28, Ill. (Resistance.)
Swift Ohio Corp 17325 Lamont St Detroit
12 Mich
Taylor-Winfield Corp., 1052 Mahoning Ave.,
N. W., Warren, Ohio.
Thomson Electric Welder Co., 161 Pleasant
St., Lynn, Mass.
United Welders Inc 1019 Scheurmann St Essexville Mich

WELDERS and EQUIPMENT, Electric (Spot)

A.E.F.—See American Ejectric Fusion Corp. Acme Electric Welder Co 2018 Fruitland Ave Los Angeles 58 Calif

Agnew Machine Co 121 S Main St Milford Mich

Mich Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y "Aircospot" Aircospot—See Air Reduction Sales Co Allen Electric & Equipment Co 2101 N Pitcher St Kalamazon 13F Mich American Electric Fusion Corp., 2610 Diversey Ave., Chicago 47, Ill. "A E.F." Ampeo Metal Inc 1737 E 38th St Milwaukee 46 Wis "Ampeo-Weid" (Tips) Birdsell Mfg Co 750 San Antonio Rd Palo Alto Calif Farmer Electric Products Co 2300 Washington St Newton Lower Falls Mass "Rototimer" (Time controls) Federal Machine & Weider Co 1745 Overland Ave Warren Ohio.

Farmer Electric Products Co 2300 Wasnington St Newton Lower Palls Mass "Rototimer" (Time controls)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohlo
Martin Electric Div Thompson Industries Inc 3040 E Outer Drive Detroit 34 Mich Micro Products Co 20 N Wacker Drive Chicago 6 Ill "Micro-Weld"
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill (Portable)
Miller Electric Mfg Co 718 S Bounds St Appleton Wis (Portable)
National Cylinder Gas Co 840 N Michigan Ave Chicago 11 Ill "Sureweld" (Portable)
National Electric Welding Machines Co 1846 N Trumbull St Bay City Mich Peer Inc 1000 Cross St Benton Harbor Mich "Peer" and "Pier-Ace"
Pier-Ace-See Peer, Inc Precision Welder & Flexopress Corp 3520 Ibsen Ave Chicinnati 9 Ohlo
Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich Resistance Welder Corp Bay City Mich Ross Machine Tool Co Box 122 Chicago Ridge Ill (Portable)
Rototimer—See Farmer Electric Products Co S-M-S Corp 8605 Livernois Ave Detroit 4 Mich (Tips)
Sciaky Bros Inc 4915 W 67th St Chicago 28 Ill (Resistance)
Swift Ohlo Corp 17325 Lamont St Detroit 12 Mich Taylor-Winfield Corp., 1052 Mahoning Ave N W Warren Ohlo

12 Mich
Taylor-Winfield Corp., 1052 Mahoning Ave
N W Warren Ohlo
Thomson Electric Welder Co 161 Pleasant
St Lynn Mass
United Welders Inc 1019 Scheurmann St
Essexville Mich
Weltronic Co 19500 W 8 Mile Rd Detroit 41
Mich (Controls)

R S M Products Inc Woodland Ave & Yale Rd Merchantville 8 N J Nelson Stud Welding Div of Gregory Indus-tries Inc Toledo Ave & E 28th St Lorain Ohio "Nelweld" tries Inc Toled

WELDERS and EQUIPMENT, Oxy-Acetylene

Airco-See Air Reduction Sales Co Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St New York N Y "Airco" Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox" Burdox—See Burdett Oxygen Co of Cleve-

Lakeside Ave Cleveland 14 Ohio "Burdox"
Burdox—See Burdett Oxygen Co of Cleveland Inc
Dockson Co C H 3833 Wabash Ave Detroit
8 Mich (Regulators)
Gasweld—See Liquid Carbonic Corp
Harris Colorific Co 5501 Cass Ave NW Cleveland 2 Ohio
Linde Co 30 F 42nd St New York 17 N Y
N Y "Oxweld" "Prest-O-Weld" "Purox"
Liquid Carbonic Corp Industrial Gas Div
Front & Porter Sts Philadelphia 42 Pa
"Gasweld"
Marquette Mfg Co 307 E Hennenin Ave

"Gasweld" (arquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn (Portable acetylene generators) (odern Engrg Co 3411 Pine Blvd St Louis 3 Mo ("Weldmaster"; "Safe-T-Chek"

Minneapolis 14 Minn (Fortable acetylene generators)

Modern Engrg Co 3411 Pine Blvd St Louis
3 Mo ("Weldmaster"; "Safe-T-Chek"
Regulators)

National Cylinder Gas Co 840 N Michigan
Ave Chicago Ill "Torchweld"
National Welding Equipment Co 218 Fremont St San Francisco 5 Calif
Oxweld—See Linde Co
Purox—See Linde Co
Purox—See Linde Co
Purox—See Linde Co
Saf-T-Chek—See Modern Engrg Co
Sight Feed Generator Co West Alexandria
Ohio (Acetylene generators)
Smith Welding Equipment Corp
Fourth St S E Minneanolis 14 Minn
Taylor-Winfield Corp 1052 Mahoning Ave
NW Warren Ohio
Tolman Mfg Co 19 W Third St (South Boston) Boston 27 Mass
Torchweld—See National Cylinder Gas Co

Victor Equipment Co 844 Folsom St San Francisco 7 Calif Weldmaster—See Modern Engrg Co

WELDING SUPPLIES . See Blow /ELDING SUPPLIES — See Blow Pipes, Brazing, Welding and Cutting; Cable, Welding; Compounds, Welding; Dies, Welding; Furnaces, Forging and Welding; Helmets, Sand Blasting and Welding; Hose, Welding; Nuts, Welding; Positioners, Welding; Presses, Welding; Rods, Welding; Welders, Welding, Cutting and Brazing; Welders Welding, Cutting and Brazing; and Equipment; also Wire, Welding

WELTS, Fender

Accurate Products Inc 135 N Spring St Indianapolis Ind Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich "YankeeWelt" Black Diamond—See Uniform Hood Lace Co. Brockton Stay Co., 24 Easex St., Haverhill,

Mass.
Carter Co., George R. 630 Lycaste Ave., Detroit, Mich.
DMP—See Detroit Master Products Co.
Detroit Gasket & Mig. Co., 12640 Burt Rd.,

Detroit Gasket & Mig. Co., 12640 Burt Rd., Detroit 23, Mich. Detroit Master Products Co 16490 Woodward Ave Detroit 3 Mich "DMP" G & G Products Co Lindale Rd Amelia Ohio KM—See Kravex Mig Corp 634 Prospect Pl Brooklyn N Y "KM" Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich Sealtite—See Union Welt Corp Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond" Union Welt Corp 1316 S Pulaski Rd Chicago 23 Ill "Sealtite" YankeeWelt—See Automotive Products Div Crotty Corp

Crotty Corp

WELTS, UPHOLSTERY-See Bindings, Up-

WHEEL DRESSERS-See Dressers, Grinding

MEEL PARTS AND ACCESSORIES—See Controls, Brake (Wheel Spinning); Discs, Wheel; Housings, Wheel and Fender; Hubs, Wheel; Locks; Rims, Wheel (Truck and Bus); Rings, Wheel Trim; Parts, Front End Suspension; also Spacers, Wheel WHEEL

WHEEL TESTING EQUIPMENT—See Gages, Wheel and Axle Aligning; Machines, Bal-ancing (Wheel)

WHEELS, Auto, Truck, and Bus (Cast Metal)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum spoke type for trucks and buses) Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio (Spoke type) Erie Malleable Iron Co Automotive Wheel Div 609 W 12th St Erie Pa Gunite Foundries Corp 302 People Ave Rock-ford Ill (Cast steel truck)

WHEELS, Auto, Truck, and Bus (Disc) Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum for truck and

buses)
Budd Wheel Co 12141 E Charelvoix Ave Detroit 14 Mich (Steel)
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich (Steel)
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Spoksteel" (Steel)
Spoksteel—See Motor Wheel Corp

WHEELS, Auto, Truck, and Bus (Dual Pneumatic)

Budd Co 12141 E Charlevoix Ave Detroit 14 Mich (Truck) Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton Ohio (Truck) Erie Malleable Iron Co Automotive Wheel Div 603 W 12th St Erie Pa (Malleable Iron

truck) Kelsey-Hayes Co 3600 Military Ave Detroit Mich (Truck)

WHEELS, Auto, Truck, and Bus (Spoke)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum forged for trucks and buses) Kelsey-Hayes Co 3600 Military Ave Detroit Mich (Steel)

WHEFLS, Buffing and Polishing

Williamsville Buff Div., Bullard Clark Co.

WHEELS, Buffing and Polishing -continued

Advance—See Matchless Metal Polish Co Armstrong Cork Co., Industrial Div., Lan-caster, Pa. (Cork.) Bacon Felt Co 427 W Water St Taunton Mass "Paramount" Bias Buff & Wheel Co., Div. Riegel Textile

Bias Buff & Wheel Co., Div. Riegel Textile
Corp Conover N J
Blue Sisal—See F L & J C Codman Co
Bruce Products Corp 500 N West St Howeli
Mich "Bruko Non Ridge" (Polishing)
Bruko Non Ridge—See Bruce Products Corp.
Champion—See F L & J. C. Codman Co.
Cleveland Container Co Abrasive Div \$571 W
62nd St Cleveland 2 Ohio (Polishing)
Codman Co F L & J C Plain St Rockland
Mass "Champion" "Nonfray" "Ripple"
"Blue Sisal"
Commonweaith Felt Co., 74 Summer St.,
Boston 9, Mass. "Perfection."
Cutmaster — See Williamsville Buff Div.,
Bullard Clark Co.
Divine Bros. Co., 200 Seward Ave., Utica 1,
N. T.
Dixon, Inc., William, 32 E. Kinney St., New-

Dixon, Inc., William, 32 E. Kinney St., New-ark, N. J.

ark, N. J.

Duplex—See Williamsville Buff Div., Bullard
Clark Co
Felt Products Mfg Co 7450 N McCormick
Blvd Skokie Ill
Grind-O-Flex—See Merit Products Inc
H-VW-M—See Hanson-Van Winkle-Mun-

H-VW-M-See Hanson-Van Winkle-Munning Co Hanson-Van Winkle-Munning Co Matawan N J "H-V W-M"
Manhattan-See Ravbestos-Manhattan Inc Matchless Metal Polish Co 346 W 49th Place Chicago III "Advance" Sirving Pl Culver City Calif "Grind-O-Flex" Millers Fails Co Greenfield Mass Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "PG"
Nonfray-See F L & JC Codman Co PG-See Minnesota Mining & Mfg Co Paramount-See Bacon Felt Co

PG—See Minnesota Mining & Mfg Co
Paramount—See Bacon Felt Co
Patch Rubber Co P O Box 933 Akron 9 Ohio
"Speed-Clean" (Tire buffing)
Perfection—See Commonwealth Felt Co
Raybestos-Manhattan Inc Manhattan Rubber
Div 61 Willet St Passaic N J "Manhattan"
Rhodes & Co James H 153 W Hubbard St
Chicago 10 Ill (Felt)
Ripple—See F L & J C Codman Co
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Sisal—See Williamsville Buff Div Bullard
Clark Co
Speed-Clean—See Patch Rubber Co
Wilco—See Williamsville Buff Div., Bullard
Clark Co.

Wilco—See Williamsvine Dullard Clark Co. 25 Clark Co. Clark Co. 25 Williamsville Buff Div Bullard Clark Co. 25 School St Danlelson Conn "Wilco" "A-I" "Duplex" "Cutmaster" "Sisal" "Duplex" "Cutmaster" "Sisal"

WHEELS, FELT-See Wheels, Buffing and

WHEELS, Fifth

(For mounting on rear of chassis or vehicle platform so that semi-trailer can be attached)

ASF—See American Steel Foundries American Steel Foundries Hohman Ave & Hoffman St Hammond Ind "ASF" "Simplex" plex

plox's
Austin Trailer Equipment Co., 1148 W.
Western Ave., Muskegon, Mich.
Bartlett Trailer Corp 3086 Archer Ave
Chicago 3 Ill (Hydraulic elevating)
Bound Brook Safety Equipment Co 232 W
Union Ave Bound Brook N J "Holland-Apgai Cemco Industries Inc Galion Ohio (Elevat-

ing)

ing) Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohlo Fontaive Truck Equipment Co 1232 N 37th Flace Birmingham Ala "Fontaine" "No-Slack"

Fruehauf Trailer Co., 10940 Harper Ave., Detroit 22 Mich Highway Trailer Co 405 E Fulton St Edger-

ton Wis
Holland-Apgar—See Bound Brook Safety
Equipment Co: also Holland Hitch Co
Holland Hitch Co 430 W 18th St Holland
Mich "Holland-Apgar" "Holland"
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kincham Trailer Co., 16th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
Loadcraft — See Spencer-Safford Loadcraft
Inc.
No Slack—See Fontaine Truck Equipment
Co

Detroit 27 Mich (Hydraulic elevating) Silver Eagle Co 5885 NW St Helens Rd Port-land 10 Ore

Simplex—See American Steel Foundries Snyder Tank Corp 3773 Lake Shore Blvd (P O Box 14) Buffalo 5 N Y Spencer-Safford Loadcraft Inc Augusta

Spencer-Safford Loadcraft ine Augusta Kans "Loadcraft" Trailmobile Inc 31st & Robertson Aves Cin-cinnati 9 Ohio "Twin-Grip" Twin-Grip—See Trailmobile Inc Weber Trailer & Mfg Co 8400 E Slauson Ave Rivera Calif (Mailing address P O Box 2473 Los Angeles 54 Calif)

WHEELS. Grinding

Allison-Campbell Div of American Chain & Cable Co 929 Connecticut Ave Bridgeport 8 Conn (Cutting-off)
Aloxite—See Carborundum Co.
Alundum—See Norton Co.
Bayfiex—See Bay State Abrasive Products

Co NV State Abrasive Products Co 12 Union St., Westboro, Mass. "Bayflex," "Saf-T-Cut"

Cut"

Behr-Manning Corp 4457 Howe St Troy N Y
"Metalite" "Resinoid" "Kon-Toor"

Besly-Welles Corp 20 N Wacker Drive Chicago 6 Ill "Besly-Titan" (Abrasive)

Black & Decker Mfg Co 629 Pennsylvania
Ave Towson 4 Md
Rorolon—See Simonds Abrasive Co.
Carborundum Co Buffalo Ave Niagara Falls
N Y "Carborundum" "Aloxite" "MX"
"Green Grit"

Green Grit'

"Green Grit"
Chicago Wheel & Mfg Co 1101 W Monroe
St Chicago 7 Ill
Cincinnati Milling Machine Co Milling Products Div 4701 Marburg Ave Cincinnati 9

Ohio
Citco—See Cleveland Industrial Tool Co
Cleveland Industrial Tool Co Box \$4 Chardon
Ohio "Citco" (Abrasive)
Cool-R-Cut—See Diamond Tool Co
Cratex Mfg Co 1609 Rollings Rd Burlingame
Calif (Rubberized abrasive) Crystolon—See Norton Co Dayton Safety—See Simonds Worden White

Co
deSanno & Son A P Wheatland St Phoenixville Pa "Radiac" "Por-Os-Way" "PorO-Bor" "Husky"
Diamond Tool Co 246 Broadway South Haven
Mich "Cool-R-Cut" (Carbide lapping; "ReLod-Able" diamond lapping
Do All Co 254 N Laurel Ave Des Plaines

TII

III
Dumore Co 1300 17th St Racine Wis
Easymount—See Sterling Grinding Wheel Co
Electrolon—See Simonds Abrasive Co
Famco—See Field Abrasive Mfg Co
Fibrex—See Simonds Abrasive Co
Fibred Abrasive Mfg Co 1303 Stanley Ave
Dayton 4 Ohio "Famco"
Gadner Machine Co 444 E Gardner St Beloit

Wis
Green Grit—See Carborundum Co
Husky—See A P deSanno & Son
Hytens—See Frecision Grinding Wheel Co
Industrial Diamond Co 2392 Wolcott Ave
Ferndale 20 Mich (Diamond)
Keel & Co 65 W Penn St Philadelphia 44
Pa.

Kaystone Borner

Keystone Reamer & Tool Co Millersburg

Pa
Ripp—See Madison-Kipp Corp
Kipp—See Behr-Manning Co
Lotens—See Behr-Manning Co
Lotens—See Precision Grinding Wheel Co
Madison-Kipp Corp 201 Waubesa St Madison-10 Wis "Kipp"
Manhattan—See Raybestos-Manhattan Inc
Metal Carbides Corp 107 E Indianola Ave
Foungstown 7 Ohio "Tallide" (Diamond)
Metalite—See Behr-Manning Corp
Mid-West Abrasive Co 510 S Washington
St Owosso Mich

Mid-West Abrasive Co 510 S Washington St Owosso Mich Millers Falls Co Greenfield Mass Nataflex—See National Grinding Wheel Co Natalite—See National Grinding Wheel Co Natalon—See National Grinding Wheel Co Nortalon—See National Grinding Wheel Co North Tonawanda N Y "Natalon" "Natalite" "Nataflex" "Onalon" & "Onalite" Norton Co 1 New Bond St Worcester Mass "Crystolon" "Alundum" Onalite—See National Grinding Wheel Co Onalon—See National Grinding Wheel Co Peninsular Grinding Wheel Co Metal Products Co 729 Meldrum Ave Detroit 7 Mich

troit 7 Mich
Por-O-Bor-See A P deSanno & Son
Por-Os-Way-See A P deSanno & Son
Precision Grinding Wheel Co 8301 Torresdale Ave (Holmesburg) Philadelphia 36
Pa "Hytens" "Lotens"
Prosser & Son Thomas Felter Bidg Tenafly
N J (Silicon carbide, aluminum oxide and

diamond)

diamond)
Radiac—See A P deSanno & Son
Raybestos-Manhattan Inc Manhattan Rubber
Div 61 Willet St Passale N J "Manhattan"
Re-Lod-Able—See Diamond Tool Co
Resinoid—See Behr-Manning Corp

Saf-T-Cut—See Bay State Abrasive Products Co Sand-O-Grind—See Western Abrasives Simex—See Simonds Abrasive Co Simonds Abrasive Co., Tacony & Fraley Sts., Philadelphia 37, Pa. "Borolon," "Elec-trolon," "Fibrex," "Simex." Simonds Worden White Co., 1101 Negley Place, Dayton 7, Ohio. "Dayton Safety." Snap-On Tools Corp., 8046 28th Ave., Keno-sha. Wis. WI

sna, Wis.
Sterbon—See Sterling Grinding Wheel Co
Sterling Grinding Wheel Co Wall St Tiffin
Ohio "Sterlith" "Sterbon" "Stermount" 'Easymount

"Easymount"
Sterlith—See Sterling Grinding Wheel Co
Stermount—See Sterling Grinding Wheel Co
Talide—See Metal Carbides Corn
Thor Power Tool Co 175 State St Aurora Ill
Tru-Matic Products Co 23 Ross St Wharton

N J United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20, N. Y

20, N. Y Western Abrasives 2132 S E Sixth Ave Port-land 14 Ore "Sand-O-Grind" (Abrasive) Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 27 Mich "Wickman" "Wick-man-Neven" (Diamond) Wissota Mfg Co 1301 S 3rd St Minneapolis Minneapolis

WHEELS, Knurling

Kennametal Inc Lloyd Ave Latrobe Pa Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn

WHEELS, Rubber Tired (Floor Truck)

WHEELS, Rubber Tired (Floor Truck)
Aerol Co 2225 San Fernando Rd Los Angeles
65 Calif "Aerol" "Aerol-Seal" "Aerothane"
"Airlite" (Aluminum)
Airlite-See Aerol Co
American Pulley Co 4200 Wissahickon Ave
Philadelphia 29 Pa
Clark Co Geo P 35 Canal St Windsor Locks
Conn (Steel)
Colson Corp Elyria Ohlo (Steel)
Dico Co 200 S W 16th St Des Moines 5 Iowa
EWC—See Electric Wheel Co
Electric Wheel Co Quincy III "EWC" (Steel)
Fairbanks Co 393 Lafayette St N Y 3 N Y
Fargo Rubber Corp Samson Wheel Div 137
E 58th St Los Angeles II Calif "Samson"
Firestone Tire & Rubber Co 1200 Firestone
Parkway Akron Ohlo (Steel)
French & Hecht Div Kelsey-Hayes Co Third
& Farnam Sts Davenport Iowa (Steel)
Geneva Metal Wheel Co 191 Factory Row
Geneva Ohlo
Hamilton Caster & Mig Co 1511 Dixle High-

Hamilton Caster & Mfg Co 1517 Dixie High-way Hamilton Ohio (Plastic and semi-

steel)
Lanco-See Lansing Co
Lansing Co 603 N Cedar St Lansing 3 Mich

"Lanco"

Natting Truck & Caster Co 1201 W Division St Faribault Minn Orangeville Mfg Co Orangeville Pa R & K Industrial Products Co 1945 N Seventh St Richmond Calif Rapids-Standard Co Rapistan Bidg Grand Rapids 2 Mich Saginaw Products Corp 68 Williamson St Saginaw Mich (Steel)

Samson—See Fargo Rubber Corp Thomas Truck & Caster Co 1021 Mississippi River Keokuk Iowa (Steel)

United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y (Steel)

Weilington Machine Co 133 DeWolf St

Wellington Machine Co 133 DeWolf St Wellington Chio

WHEELS. Steering

Inland M f. Div., General Motors Corp., 2727 Inland Ave., Dayton I. Ohlo. Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind United States Rubber Co., Rockefeller Cen-ter, 1230 Ave. of the Americas, New York 20. N. Y.

WHEELS, Trailer

WHEELS, Trailer

Aluminum Co of America 1501 Alcoa Bldg

Pittsburgh 19 Pa (Aluminum)

Budd Co., Wheel Div. 12141 cf. Charlevolx

Ave., Detroit 14. Mich.

Davion Steel Foundry Co. 1256 Miami

Chapel Rd., Dayton, Ohlo. (Steel.)

Differential Wheel Div Anderson-Bolling

Mfg P O Box 350 Grand Haven Mich (Dif
ferential dual)

Eric Malleable Iron Co Automotive Wheel

Div 609 W 12th St Eric Pa (Single and

dual pneumatic, malleable Iron)

French & Hecht, Div. Kelsey-Hayes Co.,

Third & Farnam St., Davenport, Iowa.

Geneva Metal Wheel Co., 191 Factory Row.

Geneva Ohlo.

Gunite Foundries Corp 302 Peoples Ave
Rockford Ill (Cast steel)
Homan & Co 511 Reading Rd Reading Cincinnati 15 Ohio (Aluminum and steel)
Kelsey-1-ayes Co 3600 Military Ave Detroit

WINDSHIELD SEALING COMPOUNDS—See
Compounds, Windshield Sealing
WINDSHIELDS

WINDSHIELDS

32 Mich Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Spoksteel" (Disc steel) Permold Co., 820 W. Liberty St., Medina Ohlo. (Aluminum.) Spoksteel—See Motor Wheel Corp

V/HIPCORD-See Fabrics, Uphoistery WHISTLES-See Horns

WINCHES, Truck

Adaloy-See Adams Engrg. Co.
Adams Engrg Co 31711 Solon Rd Solon Ohio
"Adaloy" & "Adams" (Power)
Beebe Bros., 2724 Sixth Ave., S., Seattle 4,
Wash (Hand)
Braden Winch Co Box 547 Broken Arrow
Okla (Power)
Burtcheel Hearing Co. 2844 S. F. Power)

Burtchaell

urtchaell Heating Co 2944 S E Blvd Portland 2 Ore "Pacific" ((Electric

nower)
rco—See Pacific Car & Fdry Co
ote Industries 1010 S Washington Ave
Lansing Mich (Hand)
lton Co 1912 S 32nd St Milwaukee 14 Wis (Hand)

Wood Industries Inc Wayne Mich

Gar Wood Industries III.

(Power)
Highway Trailer Co 405 E Fulton St Edgerton Wis (Power)
Holan Corp J H 4100 W 150th St Cleveland
35 Ohio (Power)
Hubbard Mig. Co., Farmland, Ind. (Power.)
Little Glant Products, Inc., 1530 N. Adams
St., Peorla 3, III. (Hand.)
M-B Corp 1615 Wisconsin Ave New Holstein

St. Februs 3, W. B. Corp 1615 Wisconsin Ave New Holstein Wis (Hand)
Manley Div Douglas Motors Inc 1234 N 62nd St Milwaukee 13 Wis
Ohio Holst Mfg Co 321 S Beaver St Lisbon

Onto Rolat ang Co 321 S Beaver St Lisbon Ohio (Hand)
Pacific—See Burtchaell Heating Co
Pacific Car & Foundry Co Fourth & Factory
Sts Renton Wash "Carco" (Power)
Ramsey Winch Mig Co 5531 E Admiral Pl

Ramsey Win Tulsa Okla

Tulsa Okia
Rocket—See David Round & Son
Round & Son David Box 883 Cleveland 22
Ohio "Rocket" (Power)
Sassen Derrick Co., 3101 W. Grand Ave.,
Chicago 22, Ill. (Power)
Silent Hoist & Crane Co 841 63rd Ave Brooklyn 20 N Y (Power)
Stimmel Winch Co., 37-24 33rd St., Long
Island City 1, L. N. Y. (Power)
Truck Engrg Co 1285 W 70th St Cleveland
2 Ohio

Tulsa Winch Div of Vickers Inc 815 E First St Tulsa 20 Okla (Power) Ven Corp 2828 Newell 5t Los Angeles 39 Calif (Electric)

Wats Vatson Co H Calif (Hand) 14 S 1316 67th St Emeryville

WINDINGS, ARMATURE-See Armatures WINDINGS, FIELD COIL-See Coils, Field

WINDINGS, Ignition Coil

R-B-M Div Essex Wire Corp Chestnut & Hanna St Logansport Ind

WINDOW FRAMES, METAL (AUTO) Frames, Window, Metal Sash (Auto) (AUTO) - See

WINDOW REGULATORS - See Regulators, Window

WINDOW SWITCHES—See Switches, Seat and Window (Electric)

WINDOW WASHERS-See Washers, Wind-

WINDOWS, Metal Sash (Bus, Cab and Trailer)

Barber's Glass & Mfg Co 13-15 Harrison St Oklahoma City Okla (Sliding rear, for trucks)
Imperial Electrical Co N Plum St Union City

imperial Electrical Co N Plum St Union City Ind (Cab and trailer) Marvel Industries Inc Sturgis Mich (Alumi-num for house trailers) Visionator Inc 120 N Peoria St Chicago 7 Ill (Bus)

Wo odlin Inc PO Box 1470 Texarkana Tex

(House trailer)

Foodlin Metal Products Co Marshall Mich
(House trailer and bus)

oung Windows Inc 810 Biddle Ave Rear

Ardmore Pa (Bus truck and house trailer)

Ainsworth-Precision Castings Co Div of Harsco Corp 3200 Guardian Bldg Detroit 26 Mich Imperial Electrical Co N Plum St Union City Ind

Metalcraft Mfg Co 1202 E 23rd St Indianapolis 5 Ind (Bus truck and tractor) Troy Sunshade Co., Troy, Ohio.

WINDSHIELD WASHERS - See Washers, Windshield

WIPERS, Windshield (Air)

Air Push—See Sprague Devices Inc NP—See National Pneumatic Co National Pneumatic Co 125 Amory St Boston 19 Mass "NP" 19 Mass "NP" Sprague Devices Inc 500 Huron St Michigan City Ind "Air Push" Trico Products Corp 817 Washington St Buf-falo 3 N Y (For trucks and buses)

WIPERS, Windshield (Electric)

American Bosch Div American Bosch Arms Corp 3664 Main St Springfield 7 Mass "American Bosch Neverstall" Auto-Lite—See Electric Auto-Lite Co Delco Appliance Div General Motors Corp 391 Lyell Ave Rochester 1 N Y "Power Sweep

Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"

Lite"
Electric Service Works Delta Star Electric
Div H K Porter Co 17th & Cambria Sta
Philadelphia 32 Pa
Power Sweep—See Delco Appliance Div
Signal Mfg Co 69 Bennett St Lynn Mass
Storm-King Products Co. 148-08 95th Ave
Jamaica 35, N. Y.

WIPERS, Windshield (Vacuum)

Trico Products Corp., 817 Washington Sc., Buffalo 3, N. Y.

WIRE, Armature Banding

Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa Seneca Wire & Mfg Co Vine St Fostoria

Order Wire Works Div of National-Standard Co 70 James St Worcester Mass IRE BELTING, FLEXIE Flexible Wire (Industrial) FLEXIBLE-See Belting,

WIRE, Braid

National-Standard Co Eighth & Howard Sts Niles Mich

WIRE CABLE-See Cable, Brake Control

WIRE, IGNITION, STARTING AND LIGHT. ING-See Cable, Ignition, Lighting; also Cables (Sets) Starting and

WIRE, Metallizing

(See also Solder) Metallizing Engineering Co 1101 Pro Ave Westbury L I N Y "Metco" Metco—See Metallizing Engineering Co. 1101 Prospect

National-Standard Co Eighth & Howard Sta Niles Mich Worcester Wire Works Div of National-Standard Co 70 James St Worcester Mass

WIRE, Nut

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

WIRE, Phosphor Bronze, Brass and Copper

American Brass Co., 414 Meadow St., Water-bury 20, Conn. "Anaconda." Anaconda—See American Brass Co Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

2 Conn
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Chicago Extruded Metals Co 1602 S 54th Ave
Cicero 50 Ill (Brass)
Copperweld Steel Co Wire & Cable Div
Glassport Pa (Copper covered steel; bronze

Giassport Fa (Copper)
and copper)
Porter Co H K Riverside-Alloy Metal Div
Pavilion Ave Riverside N J "Riverside"
(Phosphor bronze and Beryllium copper)
Riverside—See H K Porter Co
Roebling's Sons Corp John A 640 S Broad
St Trenton N J

Scovill Mfg Co 99 Mill St Waterbury 20 Conn (Phosphor bronze and brass) Seymour Mfg Co 15 Franklin St Seymour Conn (Phosphor bronze) Titan Metal Mfg Co Bellefonte Pa United Wire & Supply Corp 1497 Einwood Ave Providence 7 R I (Brass and copper)

WIRE Steel Spoke

Bethlehem Steel Co Bethlehem Pa Pittsburgh Steel Co 1600 Grant Bldg Pitts-burgh 30 Pa

WIRE, Steel Spring

American Steel & Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio

American Steel & Wire Div S 512

Rockefeller Bidg Cleveland 13 Ohio

"Premier"
Bethlehem Steel Co Bethlehem Pa
Brassply—See National-Standard Co
Copperply—See National-Standard Co
Jones & Laughlin Steel Corp 2 Gateway
Center Pittsburgh 30 Pa
Micro-Tin—See National-Standard Co
National-Standard Co 8th & Howard Sta
Niles Mich "Brassply" "Copperply" "Micro-Tin" "Nilcor" "Mickelply" "Trucoat"
Nickelply—See National-Standard Co
Nilcor—See National-Standard Co
Nilcor—See National-Standard Co
Page Steel & Wire Div American Chain &
Cable Co. PO Box 692, Monessen, Pa.
Premier—See American Steel & Wire Div
Roebling's Sons Corp John A 640 B Broad
St Trenton N J
Seneca Wire & Mfg Co Vine St Fostoria
Ohio (Round and flat)
Trucoat—See National-Standard Co
Wickwire Spencer Steel Div of Colorado Fuel
& Iron Corp 575 Madison Ave N Y 22 N Y
VIRE STRIPPERS—See Tools, Wire Strip-

WIRE STRIPPERS-See Tools, Wire Strip.

WIRE. Tire

National-Standard Co Eighth & Howard Sts Niles Mich

WIRE. Welding

(See also Rods, Welding)

(See also Rods, Welding)
Aluminum Co of America 1501 Alcoa Bldg
Pittsburgh 19 Pa
American Steel & Wire Co Rockefeller Bldg
Cleveland 13 Ohio "Premier"
Ampco Metal Inc 1737 S 38th St Milwaukee
46 Wis "Ampco-Trode" "Phos-Trode"
Colonial Alloys Co Ridge Ave & Crawford
St Philadelphia 29 Pa "Colweld"
Colweld—See Colonial Alloys Co
Eutectic Welding Alloys Corp 40-40 172nd
St Flushing N Y
Linde Air Products Co. 30 E. 42nd St. New

St Flushing N X Linde Air Products Co., 30 E. 42nd St., New York 17. N. Y. "Oxweld" Metal & Thermit Corp Rahway N J "Murex"

Metal & Thermit Corp Rahway N J "Murex" (Coated)
Murex—See Metal & Thermit Corp
Oxweld—See Linde Air Products Co
Page Steel & Wire Div American Chain &
Cable Co PO Box 692 Monessen Pa
Phos-Trode—See Ampco Metal Inc
Premier—See American Steel & Wire Ce
Scully Steel Products Co 1319 Wabansia Ave
Chicago III

WIRES, SPARK PLUG-See Cables (Sets)

WIRING CIRCUITS, PRINTED—See Circuits, Printed Wiring WIRING CONDUIT-See Conduit, Flexible Car

Wiring

WIRING HARNESS CONNECTORS—See Connectors, Wiring Harness

WIRING MANIFOLDS-See Conduit, Flexible Car Wiring WIRING PRESSES-See Presses, Sheet Metal

Working

WIRING SETS, IGNITION STARTING AND LIGHTING—See Cables (Sets) WORMS and WORM GEARS—See Gears, Worm Drive (Truck)

WRECKING DEVICES-See Cranes, Service

WRENCHES, Drain Plug

Blackhawk—See New Britain Machine Co Cal-Van Machine Products Inc 809 S Water St Jackson Mich

St Jackson Mich
Cornwell Quality Tools Co., Mogadore. Ohio
Duro Metal Products Co., 2649 N. Kildare
Ave., Chicago 39, Ill.
Herbrand Div Bingham-Herbrand Corp Lake
& Stone Sts Fremont Ohio "Herbrand"
"Van Chrome"
Indestro

Mfg Co 2649 N Kildare Ave Chi-Indestro

cago Ill en Tool Mfg Co 394 Sherman St Akron

WRENCHES, Drain Plug-continued

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich Lightnin-See R. J. Loock & Co. Loock & Co R. J. 343 N Gay St Baltimore Md "Lightnin"

Md "Lightnin"

New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"

Petersen Mig Co DeWitt Nebr Reda-Turner Mig Co 311 Page Blvd Springfield 4 Mass

Van Chrome—See Herbrand Div Bingham-Herbrand Corp

WRENCHES, Ignition

WRENCHES, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford I. Conn. "Vitalioy."
Blackhawk—See New Britain Machine Co
Bonney Forge & Tool Works 2400 Rockhill
Rd N Alliance Ohio
Cornwell Quanty Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare
Ave. Chicago 38, Ill.
Herbrand Div Bingham-Herbrand Corp Lake
& Stone Sts Fremont Ohio "Herbrand"
"Van Chrome"
Indestro Mig. Co., 2649 N. Kildare Ave.,
Chicago, Ill.

Chicago, Ili.
K-D Mig Co 526 N Plum St Lancaster Pa
Kastar Inc 200 Lincoln Ave New York

Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J ightnin—See R J Loock & Co oock & Co R J 343 N Gay St Baltimore Md "Lightnin" Lightnin-

Metal Engrg Co 134 N La Salle St Chicago Ill "Metcoid"

Meta Engre Co

Ill "Metcoid"
Metcoid—See Metal Engre Co
Mew Britain Machine Co Hand Tools Div
South St New Britain Conn "Blackhawk"
& "New Britain"
Niehoff & Co C E 4925 W Lawrence Ave
Chicago 30 Ill
OTC—See Owatonna Tool Co
Owatonna Tool Co 342 N Cedar St Owatonna Minn "OTC"
P & C Tool Co Box 5926 Milwaukie Ore
Proto Tools 2009 Santa Fe Ave Los Angeles
Calif

Calif ovtar Tool-Die Mfg Co 2230 S Wood St Chicago 8 III haw Co Joseph 6120 Detroit Ave Toledo 12

Snap-On Tools Corp., 8046 28th Ave., Ken-osha, Wis.

osha, Wis.
Standard Motor Products Inc 27-18 Northern
Elvd Long Island City 1 N Y
Superrench—See J H Williams & Co
Van Chron—See Herbrand Div., BinghamHerbrand Corp.
Vitalioy—See Eillings & Spencer Co.
Wheel Parts & Mfg Co 352 Fourth Ave N Y
Wilde Drop Forces & Tool Co. 2524 Fate-

10 N Y
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave, Kansas City, Mo.
Williams & Co J H 400 Vulcan St Buffalo 7
N Y "Superrench"

WRENCHES, Nut and Bolt

(See also Wrenches, Socket) Apco Mossberg Co Lamb St Attleboro Mass "Mossberg" Auburn Spark Plug Co York St Auburn N Y

(Spark plug) Billings & Spencer Co 1 Laurel St Hartford 1 Conn

Blackhawk—See New Britain Machine Co Blu-Forge—See Bridgeport Hardware Mig.

Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio

Bonney Forge & Tool Works 2409 Rocknii Rd N Alliance Ohio Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Blu-Forge," "Hy-Bar." Budnut-See Lambert Inc C-T-K—See Chicago Tool & Kit Mfg. Co. Chicago Folia Consella Consella Consella Consella Consella Cornwell Quality Tools Co., Mogadore, Ohio. Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome." Fairmount Tool & Forging Inc 10611 Quincy Ave., Cleveland 6, Ohio.
Favorite—See Greene Tweed & Co. North Wales Pa. "Favorite"

Greene Tv

"Favorite"

Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand"
"Van Chrome"

Hy-Bar-See Bridgeport Hardware Mfg.
Corp.
Indestro Mfg. Co., 2649 N. Kildare Ave.,
Chicago, Ili.
Kastar Inc 200 Lincoln Ave New York 54
N Y

Ken Tool Mfg Co 768 E North St Akron Ohio WRENCHES, Socket

tent-Moore Organization Inc 1501 S Jackson St Jackson Mich ambert Inc Ansonia Ohio "Budnut" (Wheel)

(Wheel)
Lectrolite Corp Hickory St Defiance O
Lee Co K O Congress at First Ave S E
Aberdeen S D (Stud)
Lisle Corp R09 E Main St Clarinda Iowa
Mac—See Mechanic's Tool & Forge Co
Mechanic's Tool & Forge Co Howard St
Sabina 1 Ohio "Mac"
Metal Engineering Co 134 N La Salle St
Chicago III "Metcold"
Metcoid—See Metal Engineering Co
Mossberg—See Apco Mossberg Co
Nasa Tool Mfg Corp 3427 Locust Corner Rd
Amella Ohio

Amelia Ohio
ational—See Wheel Parts & Mfg Co
few Britain Machine Co Hand Tools Div
South St New Britain Conn "Blackhawk"
& "New Britain"
watonna Tool Co 342 N Cedar St Owa-

Owatonna To tonna Minn
P & C Tool Co Box 5926 Milwaukie Ore
Petersen Mfg. Co., DeWitt, Neb. "Vise-Grip."

Tools 2209 Santa Fe Ave Los Angeles ode Island Tool Co 148 W River St Provi-Rh

Rhode Island Tool Co 120 W Audion of 1 R I
Rovtar Tool-Die Mfg Co 2220 S Wood St Chicago 8 Ill
Sal Metal Products Co., 120 Freeman St.,
Brooklyn 22, N. Y. "Sam-Sons."
Sam-Sons—See Sal Metal Products Co.
Snap-On Tools Corp 8046 28th Ave Kenosha

Wis Stevens Walden Inc 475 Shrewsbury St Wor-cester Mass "Walden-Worcester" Superrench—See J H Williams & Co Sweeney Mig Co B K 1601 23rd St Denver

Sweeney and Color Colo Colo Utica Drop Forge & Tool—Div of Kelsey-Hayes Co 2500 Whitesboro St Utica N Y (Adjustable)
Van Chrome—See Herbrand Div., Bingham-

(Adjustance)
Van Chrome—See Herbrand Div., BingmannHerbrand Corp.
Vise-Grin—See Petersen Mfg. Co.
Vichek Tool Co., 2001 E. 87th St., Cleveland 4,

Walden-Worcester-See Stevens Walden,

Wheel Parts & Mfg Co 352 Fourth Ave N Y
10 N Y "National" (Wheel)
Williams & Co J H 400 Vulcan St Buffalo ?
N Y "Superrench"

WRENCHES, Portable Electric

Albertson & Co 3100 Lowell Ave Sloux City 3 Iowa "Sloux" (Impact) Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md

Chicago Pneumatic Tool Co & E 44th St N Y 17 N Y "Hicycle" "Universal" (Impact)

Hicycle-See Chicago Pneumatic Tool Co Impactool-See Ingersoll-Rand Co Ingersoll-Rand Co 11 Broadway New York 4 N Y "Impactool" (Impact)

Millers Falls Co Greenfield Mass (Impact) Remington Arms Co 939 Barnum Ave Bridge-port 2 Conn

Sioux-See Albertson & Co

Snap-On Tools Corp 8046 28th Ave Kenosha

SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor SpeedWrenches" (Impact)

Thor Power Tool Co 175 State St Aurora Ill Thor SpeedWrenches-See SpeedWay Mfg Universal-See Chicago Pneumatic Tool Co

WRENCHES, Portable Pneumatic

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux" Albertson & Co 3100 Lowell Ave Sloux City 3 Iowa "Sloux"
Aro Equipment Corp., Brvan, Ohlo. Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Oblo Chicago Pneumatic Tool Co 6 E 44th St New York N Y (Impact) Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Tex. Impactool—See Ingersoil-Rand Co Ingersoil-Rand Co Ingersoil-Rand Co 11 Broadway New York 4 N Y "Impactool" (Impact) Keller Tool Div Gardner Denver Co 1333 Fulton St Grand Haven Mich Master Pneumatic Tool Co Krick Rd Bedford Ohlo "Master Power" (Impact) Rotor Tool Co 25600 Lakeland Blvd Cleveland \$2 Ohlo Sloux—See Albertson & Co Askaland Blvd Clever

Sioux—See Albertson & Co Thor Power Tool Co 175 State St Aurora III (Impact)

Apco Mossberg Co Lamb St Attleboro Mass "Mossberg"

Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio. Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.

Automotive Service Tools Inc 700 Sheridan St Lansing 6 Mich (Axle) Billings & Spencer Co 1 Laurel St Hart-ford 1 Conn "Vitalloy"

Blackhawk-See New Brita'n Machine Co

Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio Boxtite-See Stevens Walden, Inc.

C-T-K-See Chicago Tool & Kit Mfg. Co. Challenger-See Penens Corp

Chicago Tool & Kit Mig Co 230 N Jefferson St Chicago 6 Ill "C-T-K" Cincinnati Tool Co 1953 Waverly Ave Cin-cinnati 12 Ohio "Hargrave" Cornwell Quality Tools Co., Mogadore, Ohio

Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. Dorman Products Inc 1004 Sycamore St Cin-cinnati 2 Ohio (For set screws)

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."

Fairmont Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio Favorite-See Greene Tweed & Co

G M Co Mfg Inc 18-08 43rd Ave Long Island City L I N Y

Greene Tweed & Co North Wales Pa "Favo-rite"

Hargrave-See Cincinnati Tool Co. Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"

Indestro Mfg. Co., 2649 N. Kildare Ave., Chi cago, Ili.

K-D Mfg Co 526 N Plum St Lancaster Pa Mac-See Mechanic's Tool & Forge Co.

Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."

Mossberg-See Apo Mossberg Co Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk"

"New Britain"
OTC-See Owatonna Tool Co.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P& C Tool Co Box 5926 Milwaukie Ore
Penens Corp 3900 Wesley Terrace Schiller
Park I. "Challenger"
Proto Tools 2209 Santa Fe Ave Los Angeles

8-K-Nec

-K-See Sherman-Klove Co. et Screw & Mfg Co 270 Main St Bartlett Ill (Hexagon)

(Hexagon)
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Snap-On Tools Corp., 3046 28th Ave., Kenosha, Wis.
Spintite—See Stevens Walden Inc
Stevens Walden Inc 476 Shrewsbury St Worcester Mass "Walden-Worcester" "Tee-Flex" "Spintite" "Boxtite"
Supersocket—See J H Williams & Co
Sweeney Mfg Co B K 1601 23rd St Denver Colo

Colo TeeFlex—See Stevens Walden, Inc. Van Chrome—See Herbrand Div., Bingham-Van Chrome—See Herband Div., Bingham-Herbrand Corp.
Vitalloy—See Billings & Spencer Co.
Vichek Tool Co., 2001 E. 87th St., Cleveland,

Walden-Worcester-See Stevens Walden,

Inc.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Supersocket."
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio.
Xcelite Inc Thorn Ave & B R & P Tracks
Orchard Park N Y

WRENCHES, SPARK PLUG—See Wrenches, Nut and Bolt

WRENCHES, TENSION-See Wrenches,

WRENCHES, Torque

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.

Apco Mossberg Co Lamb St Attleboro Mass "Mossberg"

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 30 Ill

Blackhawk-See New Britain Machine Co C. & G. Wheel Puller Co., Scio, N. Y. (Pre-set.)

Cedar Rapids Engineering Co 902 17th St N E Cedar Rapids Iowa "Kwik-Way" Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill

Cornwell Quality Tools Co Mogadore Ohio Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."

Fairmont Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio

Hastings Mfg Co N Hanover St Hastings

Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"

Jo-Line Tools Inc 8442 Otis St South Gate Calif "Joei" "Joex" "Jomi" "Jote" "Jotru"

Joel-See Jo-Line Tools Inc Joex-See Jo-Line Tools Inc Jomi-See Jo-Line Tools Inc

Jote-See Jo-Line Tools Inc

Jotru-See Jo-Line Tools Inc

Kent-Moore Organization Inc 1501 S Jackson St Jackson Mich Kwik-Way-See Cedar Rapids Engineering

La Salle Tool Inc 3849 E Outer Dr Detroit 34 Mich Livermont-See Richmont Inc.

Measurrench-See J. H. Williams & Co. Mossberg-See Apco Mossberg Co

New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"

Owatonna Tool Co 342 N Cedar St Owatonna Minn

P & C Tool Co Box 5926 Milwaukie Ore Proto Tools 2209 Santa Fe Ave Los Angeles 54 Calif

Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.

Richmont Inc 922 S Myrtle Ave Monrovia Calif "Livermont"

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

Sturtevant Co P A Addison Ill Sunnen Products Ce 7910 Manchester Ave St Louis 17 Mo

Van Chrome—See Herbrand Div Bingham-Herbrand Corp Williams & Co J H 400 Vulcan St Buffalo 7 N Y "Measurrench"

Wilson Inc K R Arcade N Y

X-RAY MACHINES-See Machines, X-Ray

ZINC (Plates, Slabs, Sheets and Strips) American Nickeloid Co., Peru, Ill. "Nickeloid." (Nickel plated to zinc in sheet and coil; "Chromaloid" chrome plated to zinc in sheet and coil; "Copperoid" copper plated to zinc in sheet and coil; "Brassoid" brass plated to zinc in sheet and coil.

American Zinc Lead & Smelting Co 1600 Paul Brown Bldg St Louis 1 Mo "American" 'Granby' (Slabs; sole distributors, Ameri-can Zinc Sales Co 1600 Paul Brown Bldg St Louis 1 Mo)

Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Nickel and chromium plated zinc sheets and colls.)

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. Brassoid—See American Nickeloid Co.

Bunker Hill Co 5th Floor 600 Market St San Francisco 4 Calif (Slabs)

Chromaloid-See American Nickeloid Co. Copperoid-See American Nickeloid Co. Eagle-Picher Co., American Bldg., Central Parkway, Cincinnati, Ohio. (Slab.)

Empire Metal Co 820 E Water St Syracuse 3 N.Y Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5

Granby—See American Zinc Lead & Smelting Co

Horse Head Special—See New Jersey Zinc Co.

National Lead Co 111 Broadway NY 6 NY New Jersey Zinc Co 160 Front St New York 38 N Y "Horse Head Special" (Slabs) Nickeloid—See American Nickeloid Co.

The A. I. PRODUCTS GUIDE . . .

will be a regular feature in each succeeding December 15th issue of AUTOMOTIVE INDUSTRIES as part of its expanding editorial service to you.

This handy Products Guide provides you with a quick source for locating suppliers of countless products, machines and equipment used in automotive and aviation manufacturing-right at your fingertips.

We welcome your comments pertaining to the A. I. Products Guide as to its completeness, method of listing and usefulness to you and your associates.

The Editor

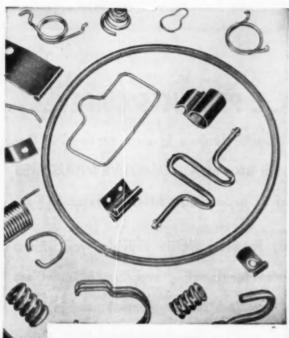
AUTOMOTIVE INDUSTRIES

A Chilton Publication

Chestnut & 56th Sts.

Philadelphia 39, Pa.

This Products Guide is carefully compiled from information submitted by the companies whose products are listed herein and has been reviewed by the editors. Inclusion herein and classification of a product name as a Trade Name, Trade Mark or Brand Name is not to be understood as an indication of publisher's opinion that the name is subject to proprietary rights. Where any loss or damage in any direction might result from any error or incorrect information or listing herein, AUTOMOTIVE INDUS-TRIES disclaims responsibility.



COIL SPRING SAYS:



We're ready to help you with your spring purchases. We have the long years of experience so necessary to produce springs in any volume and to your exact specifications. Our research and testing facilities are the finest. Our production men have a reputation for making the springs you need economically. For springs, wire forms and small parts, give us a call. You'll find spring buying is easy when you deal with a spring-making specialist.

No order too large or too small.

The U. S. STEEL WIRE SPRING Co.

7800 FINNEY AVE. • MICHIGAN 1-6315 CLEVELAND 5, OHIO RUBINITY
PRODUCTION

of
GREY IRON CASTINGS

ONE OF THE NATION'S
LARGEST AND MOST MODERN
PRODUCTION FOUNDRIES

*

ESTABLISHED 1866
THE WHELAND COMPANY
FOUNDRY DIVISION

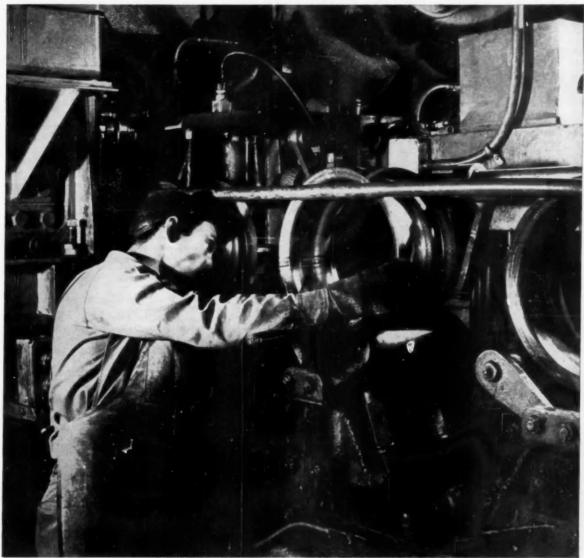
MAIN OFFICE AND MANUFACTURING PLANTS
CHAITANOOGA 2, TENNESSEE

Circle 175 on Inquiry Card for more data

THE TREND
IN DRAFTING ROOMS
THROUGHOUT
THE WORLD IS
TOWARD IMPERIAL,
THE WORLD'S FINEST
TRACING CLOTH

data

AUTOMOTIVE INDUSTRIES, December 15, 1958



A workman checks the contour of a wheel rim before it passes to the next, and final, forming operation. Later, the rims will be welded to the hub and drum assembly to make the complete wheel.

Automobile wheels - a torture test for sheet steel

What a beating the wheels on your automobile must take! And how doggedly they stand up under their gruelling ordeal! Surely this is dramatic proof of the invincibility of strong sheet steel.

But the true torture test of steel sheets takes place in the actual making of the wheels themselves. Take rims for example. Here, the tough, strong sheet must be ductile enough to be spun to the complex contour required. It's no doubt one of the toughest tests imposed on steel sheets anywhere.

Only top-quality sheets—like Bethlehem's—will take such severe punishment with uniform success.

Bethlehem sheets have been formed into hundreds of thousands of wheels for leading makes of automobiles. We'll gladly discuss your sheet steel needs, whenever it suits you. Just call our nearest office.

BETHLEHEM STEEL COMPANY, BETHLEHEM, PA.

On the Pacific Coast Bethlehem products are sold by Bethlehem Pacific Coast Steel Corporation Export Distributor: Bethlehem Steel Export Corporation

BETHLEHEM STEEL



		New York Air Brake Co.
AC Electronics Div. of General Motors		Hydreco Div
AMP Inc. 4 Allegheny Ludium Steel Corp.	Index to	P
Carmet Div. 90 Aluminum Co. of America10-11	IIIucx to	Packard Electric Div 95
American Automatic Devices Co. 173 American Stamping Co. 127	Advertisers	Parker Rust Proof Co. 88-89 Perma Seating Co 221 Polk Co., R. L. 92
American Steel & Wire Div 62-63 Armstrong Cork Co	This Advertisers' Index is published as a convenience,	
Attwood Brass Works, Inc	and not as part of the advertising contract. Every care will be taken to index correctly. No allow- ance will be made for errors or failure to insert.	R Raybestos-Manhattan, Inc. Plastic Products Div. 14 Republic Steel Corp. 84-85 Richards Co., J. A. 179
Babcock & Wilcox Co. Tubular Products Div		Richland Auto Parts Co
Bendix Aviation Corp. Products Div	Φ	Rockwell-Standard Corp. Transmission & Axle Div. 5 Russell, Burdsall & Ward Bolt &
Bothlehem Steel Co		Nut Co. 91 Ryerson & Son, Inc., Jos. T 36
Bundy Tubing Co. 26-27 Burgess-Norton Mfg. Co. 203		S
Burton Auto Spring Corp 49	Gisholt Machine Co	SKF Industries, Inc
c	Globe Hoist Co	Service Products Corp. 251 Service Spring Co. 229 Set Screw & Mfg. Co. 221
dry Co		Severance Tool Industries, Inc. 121, 137 Shuler Axle Co. 119
Cannon Bronze Co. 109 Century Gas Equipment Co. 82	H Heald Machine Co 2nd Cover	Signal Flare Div. Standard Railway Fusee Corp. 151
Chicago Pneumatic Tool Co	Hudson Lamp Co 60	Southern Screw Co. 61 Superior Screw & Mfg. Co. 135
Cleco Div., Reed Roller Bit Co 6 Cleveland Punch & Shear Works	1	Superior Steel Div. (Copperweld Steel Co.)
Co. 209 Columbia-Geneva Steel Div	Imperial Brass Mfg. Co 151	Synchro-Start Products, Inc 135
Continental Felt Co	J	T
Copeland-Gibson Products Corp 215 Copperweld Steel Co. Superior Steel Div	Johnson Products, Inc 74	Tennessee Coal & Iron Div. 62-63 Tung-Sol Electric, Inc. Electroswitch Div. 46
Crucible Steel Co. of America 95	K	
D	Keuffel & Esser Co	U U. S. Steel Wire Spring Co 253
Dana Corp. (Spicer)	*	United States Steel Corp. 62-63
Denison Engineering Div25, 83	Lamb Electric Co 70	United States Steel Supply Div 62-63
Detrex Chemical Industries, Inc 181 Detroit Aluminum & Brass Corp 109	Lapeer Mfg. Co	V
Detroit Gasket & Mfg. Co 157 Detroit Master Products Co 163	Link-Belt Co	Vellumoid Co 94
Dow Chemical Co		Victor Mfg. & Gasket Co
Du Pont de Nemours & Co., E. I.	M Malanth Shall Com	•
Fabrics Div. 81 Dykem Co. 86	McLouth Steel Corp. 45 Mather Spring Co. 229	W
	Melling Tool Co	Wagner Electric Corp. 57 Waukesha Motor Co. 1, 145
E Electric Furnace Co	Micromatic Hone Corp. 185 Milford Rivet & Machine Co. 86 Miller Fluid Power Div. 55	Westinghouse Electric Corp. Induction Heating Dept
		Wohlert Corp159, 211, 217, 251 Wyman-Gordon Co 102
Fairfield Mfg. Co	N Nadella	
Federal Machine & Welder Co 71	National Aniline Div	ΥΥ
Federal-Mogul-Bower Bearings, Inc. Bearings Co. of Amer. Div	National Automatic Tool Co., Inc. 66-67 National Seal Div	Yates-American Machine Co 211 Yoder Company 80
National Seal Div	New Britain Machine Co. New Britain-Gridley Machine Div. 13	z
Fuller Mfg. Co 243	New Departure Div Back Cover	Zollner Corp3rd Cover

FREE LITERATURE

Microhardness Testers

A low cost microhardness tester that permits direct, accurate readings, corresponding to Vickers, within 15 seconds by measuring resistance hydrostatically and which eliminates a microscope, conversion charts and complicated tables is described in a bulletin issued by Newage Industries. Inc.

Ground Power Support 2

A brochure illustrating and describing the complete line of Hobart Energizers for the ground support of aircraft is available from the Motor Generator Corp.

Tire Valve Products

A 16 page catalog illustrating and describing its complete line of tire valve products for off-the-road equipment, has been prepared by the Dill Mfg. Co.

Demand Recorder

An impulse counting and recording device is described in a 16 page catalog. It is proving useful for applications such as production control, traffic counting and atomic energy work. Fischer & Porter Co.

Shaft Machine

Catalog 59, eight pages, contains data on standard flexible shafts and flexible shaft machines. These machines are used for grinding and polishing, as well as for other finishing operations. Stow Mfg. Co.

Stamping Presses

Bulletin 855P, 12 pages, illustrates and describes the Alpha line of high-speed, 2-point, underdrive stamping presses. Standard capacities range from 50 to 300 tons. Alpha Press & Machine, Inc.

Ceramic Transducers 7

Described in an eight page brochure are the high Curie points of a line of ceramic transducers that have made possible higher output voltages per unit input pressure than can be reached with conventional ceramics. Gulton Industries, Inc.

(Please turn page)

Free INFORMATION SERVICE ON

new materials and components
new production equipment
advertiser's products and services
copies of technical literature

Use these postcards for Free Literature listed on these pages, or for more information on New Production Equipment and New Products advertised and described editorially in this issue.

USE FREE READER SERVICE CARDS

Permit No. 36 New York, N. Y.

BUSINESS REPLY CARD No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

AUTOMOTIVE INDUSTRIES

P. O. Box 66.

Village Station.

Readers Service Dept.

New York 14, N. Y.

Postcard valid 8 weeks only. After that use own letterhead fully describing item wanted. 12/15/58 Please send further information on items circled below. 23 24 63 64 65 RO AP 102 103 104 105 106 107 108 109 110 111 112 113 114 122 123 124 125 126 143 144 145 146 147 148 149 150 151 152 153 154 162 163 164 165 166 167 185 186 183 184 202 203 204 205 206 207 208 209 210 211 212 226 227 223 224 230 231 232 233 234 235 241 242 243 244 245 246 247 251 252 253 254 255 256 257 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 YOUR NAMETITLE..... COMPANYZONE......STATE....

tree information service

- FREE LITERATURE - Continued -

Welding Electrodes

Bulletin 7000.2, 20 pages, is a procedure guide and catalog for Lincoln manual arc welding electrodes for hardsurfacing and for welding stainless steels, non-ferrous metals and cast iron. The Lincoln Electric

Braking Systems

An engineering catalog detailing its new concept in braking systems for industrial trucks has been released by the Ewell-Parker Electric Co. The system, known as the Tri-Safe braking system, incorporates three independent brakes: a dynamic brake, a power operated hydraulic brake and a mechanical brake.

Solenoid Valves

Catalog 2000, 12 pages, covers a line of high-pressure solenoid valves for hydraulic power systems. The line includes two-way and three-way valves in both ac and dc models. Waterman Engineering Co.

Spray Coat Systems

"New Spray Methods for Reactive Resin Coatings," a three page technical bulletin describes a method of spray coating 100 per cent reactive systems based on Bakelite epoxy resins that results in curing speeds suited to application requirements. Union Carbide Plastics Co., Div. of Union Carbide Corp.

Steel, Aluminum Data

A 256 page pocket size data book includes aluminum analyses, characteristics, mechanical properties and tolerances, which are in additon to previously published information on steel, such as machning data, fabricating data, manufacturing practices and tolerances, etc. Joseph T. Ryerson & Son, Inc.

---- Flexible Hose

13

Bulletin 400, six pages, covers a line of finger-flexible hose for industrial and aircraft applications. Specifications and ordering instructions are given in illustrated form. Titeflez,

Thread Comparators 14

Pratt & Whitney Co., Inc., has prepared a circular describing Tri-Roll thread comparators that are designed to reveal deviations from true size that exist in externally threaded parts. They are adaptable to any kind of quality control inspection by sampling or 100 per cent inspection.

Instrument Cases

15

A 20 page design manual on standard and special instrument cases contains complete detail prints and design information on 120 basic types and sizes. All cases are made of drawn aluminum. TA Mfg. Corp.

Digital Voltmeter

Data Sheet 19-24 describes the new Kin Tel Model 402 ac/dc digital voltmeter. The meter provides 100 microvolt resolution in dc, 1 millivolt in ac. The readout is connected to the meter by cable and may be rackmounted at a remote location if desired. Kin Tel, A Div. of Cohu Electronics, Inc.

Pastcard valid 8 weeks only. After that use own letterhead fully describing item wanted. 12/15/58 Please send further information on items circled below. 23 26 28 38 45 47 48 50 51 52 57 58 59 42 43 82 87 81 83 84 85 RA RR RO 90 01 92 93 94 96 97 0.9 100 105 106 107 108 109 110 112 115 116 117 101 102 103 104 111 113 114 119 118 127 143 144 145 146 147 148 149 150 151 152 153 154 155 156 167 168 169 170 171 174 175 176 161 162 163 164 165 166 172 173 187 181 182 183 184 185 186 188 189 191 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 233 234 235 236 237 238 222 223 224 225 226 227 228 229 230 231 232 239 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 262 263 264 265 266 267 268 269 270 271 272 273 274 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 YOUR NAMETITLE COMPANY

FIRST CLASS Permit No. 36 New York, N. Y.

BUSINESS REPLY CARD

No Postage Stamp Necessary if Mailed 'a the United States

POSTAGE WILL BE PAID BY

AUTOMOTIVE INDUSTRIES

P. O. Box 66, Village Station. New York 14, N. Y.

Readers Service Dept.



ORDER YOUR NEW SUBSCRIPTION NOW

FREE LITERATURE— continued

Presses, Preformers 17

A 14 page catalog covers a complete line of hydraulic presses and preformers for the thermoplastics molding industry. The units range from 10 to 400 tons and may be controlled automatically or semi-automatically and with various pressures required for all types of molding materials. Logan Hydraulics, Inc.

Boring Machine 13

The largest standard horizontal precision boring machines in the Ex-Cell-O line are described and illustrated in a brochure published by Ex-Cell-O Corp.

Air Cylinder

Bulletin SQ 10-58 describes and relates complete technical data concerning the new T-J Squair head, interchangeable cylinder. The Tomkins-Johnson Co.

Gasoline Engines 20

A four page fold-out brochure highlights recommended uses for the recently introduced Hercules line of air-cooled gasoline engines. Hercules Motor Corp.

Liquid Acid Solution 21

A liquid acid solution that produces a bright, smooth surface on stainless steel, aluminum alloys and low and high carbon steels, is fully described in three page Technical Data Sheet 81. MacDermid, Inc.

Screw-Nut Driver 22

Bulletin SD-B1, four pages, presents information on a Dixon Driver for screws and nuts—the Auto-Torque Driver. The bulletin shows the various models, how parts are handled by the feeder and gives specifications. Dixon Automatic Tool, Inc.

(Please turn page)

AUTOMOTIVE INDUSTRIES

SUBSCRIPTION ORDER FORM

in	the	U. S	., U.		osses	sions												lustri	
										*			,						
									omot) for						0.00	for	One	Ye	ar
N	AME												TITL	E.					
C	ОМР	AN	Y N	AME															
PL	ANT	AD	DRE	SS .															
CI	TY 8	& ST	ATE																
PR	ODI	JCT	MA	NUF	AC	TURE	D.												
Roomed				close asa f		comp	Names		l me 'e ca			A					it thi	s dat	a.
				A U	T	о м	0	TI	V E	1	N D	US	T	RII	ES			-	
				s U	B S	C R	I P 1	110	N	0	R D	ER		FO	R M				
in	the !	Ú. S.	, U.		osses	sions												lustri . Al	
									omot						0.00	for	One	Ye	or
N	AME												TITL	Ε					
C	ОМР	AN	YN	AME															
				close		ONE			me										,
Second						comp	********					-					t this	s dat	a.
			d fu	irthe					lette		s ci							2/15	
21	22	23	24	25	26	27 47	28	29	30	31	32	33	34	35	36	37	18	39	40
61	62	63			46 66	67	48 68	69	70	51 71	52 72	53 73	54 74	55 75	56 76	57 77	58 78	59 79	60 80
101	102	103	104		106.	107	108	109	110	91	92	93	94	95 115	96	97	98	99	
121	122	123	124		126	127	128	129	130	131	132	133	134	135	136	137	138		120
141	142	143	144		146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164		166	167	168		170	171	172	173	174	175	176	177	178	179	180
201	202	203	204	205	206	207		209			212		214			217	218	219	
221	222			225	226	227	228	229	230	231		233		235		237	238	239	240
261	262	263	264	245	266	267	268	249 269	250 270	271	272	273	274	275	276	257 277	278	259 279	
									290								298		300
	MPA																		***
PLA	NT /	ADDE	RESS	* * * *		***												***	

ee information service

FREE LITERATURE - Continued -

FIRST CLASS Permit No. 12 Philadelphia 39, Pa.

BUSINESS REPLY CARD

No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

AUTOMOTIVE INDUSTRIES

Chestnut & 56th Sts.

Philadelphia 39, Pa.

FIRST CLASS Permit No. 18 Philadelphia 39, Pa.

BUSINESS REPLY CARD No Postage Stamp Necessary If Mailed In the United States

POSTAGE WILL BE PAID BY

AUTOMOTIVE INDUSTRIES

Chestnut & 56th Sts.

Philadelphia 39, Pa.

FIRST CLASS Permit No. 36 New York, N. Y.

BUSINESS REPLY CARD

No Postage Stamp Necessary if Mailed in the United States

POSTAGE WILL BE PAID BY

AUTOMOTIVE INDUSTRIES

Readers Service Dept.

P. O. Box 66, Village Station, New York 14, N. Y. Alloy Booklet

"Hastelloy" alloy B, an alloy that combines the advantages of resistance to corrosion with good strength at high temperatures is the subject of a 12 page booklet prepared by Haynes Stellite Co.

Rolling Mills

An illustrated brochure published by Waterbury Rolling Mills describes and pictures the effects of its precision-annealing technique on spring temper phosphor bronze sheet and

Abrasive Cutting Unit

The Model 481 wet abrasive cut-off machine is described in four page Bulletin DH-84. Work-holding fixtures, machine design characteristics and complete specifications are listed. Allison - Campbell Div., American Chain & Cable Co.

Centrifugal Fan

Complete specifications on a gasengine-driven centrifugal fan are contained in Bulletin 257-20. The unit is a type-B volume fan, light in weight and completely self-contained. Ilg Electric Ventilating Co.

Al Index

Check 27 on postcard for index to Vol. 118 (Jan. 1 to June 15, 1958) of AUTOMOTIVE INDUSTRIES. A limited number of copies of the index to Vol. 117 (July 1 to Dec. 15, 1957) are also available. Check 28 if you wish this index also.

Technical Brochure

A new six page brochure, "High Vacuum Technology and the Space Age," of interest to high altitude aircraft and missile industry design engineers and technical management is available from National Research Corp. Address request on company letterhead to Manager, Space Activities, National Research Corp., 70 Memorial Drive, Cambridge 42, Mass.



CLEAR-O-MATIC*

tages in addition to the basic Zollner desig

cool piston with greater area of conductivi

promised strength for long-life durability suggest an immediate test for your engine. THE "CONTROLLED PISTON EXPANSION"

Engineered for COOLER RUNNING 20% Greater Heat Conductivity

GREATER DURABILITY
No Compromise with Strength in Design

Piston. The expertly engineered design of this great piston development incorporates vitally desired performance advanted expansion control feature. Clear O-Matic is a remarkably for heat dissipation. This greater section provides uncom-No other piston provides Clear-O-Matic advantages. We



STEEL TENSION MEMBER

Anchored only at pin bosses and cast in positive contact with I.D. of piston skirt.

Automatically maintains uniform effective skirt clearance at all temperatures.



COOL PISTONS

20% greater section for heat conductivity.

DURABILITY

Greater section above pin bosses provides uncompromised strength with long life.



*T.M. Reg. Pat. A. Po. Po.

Advanced Engineering

Precision Production

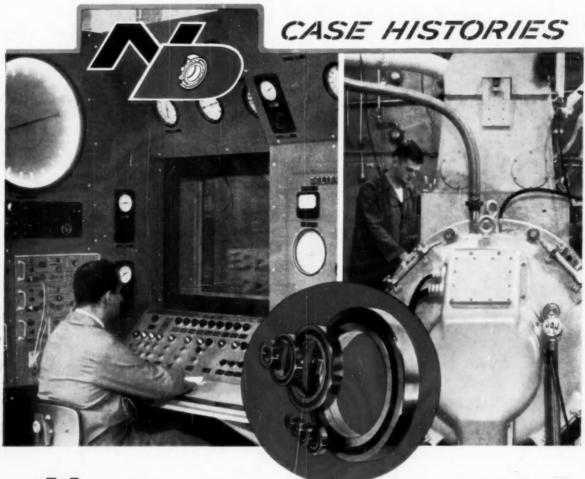
Cooperation with Engine Builders ZOLLNER

THE ORIGINAL EQUIPMENT PISTON

LARER

ZOLLNER CORPORATION . Fort Wayne, Indiana

Circle 102 on Inquiry Card for more data



Research Labs Keep Pace, With Giant Stride Of America's Air Industry!

CUSTOMER PROBLEM:

Require test rig for measuring full scale aircraft turbine bearings. Test rig must simulate actual operating conditions.

SOLUTION:

N/D engineering, in cooperation with customer under the direction of a defense agency, developed the aircraft turbine bearing testing equipment shown above. The Test Rig Control Console, shown on the left, initiates and controls tests, and completely records all operating performance characteristics. The test stand itself, above right, simulates the actual condi-

tions to which the bearings are subjected in flight. It develops radial loads of up to 25,000 lbs. . . . and thrust loads reaching a maximum 75,000 lbs. Bearings up to 110mm bore are tested at speeds as high as 20,000 r.p.m., in temperatures ranging up to 1200° F. Research facilities such as this are your assurance that New Departure stands ready to work closely with you on your bearing research problems. For information on New Departure precision Aircraft and Instrument ball bearings, or research facilities, call the New Departure Sales Engineer in your area or write Dept. C-12.

